STATISTICS OF WISCONSIN PUBLIC UTILITIES

1985-1984-1983

ELECTRIC, GAS, TELEPHONE
WATER AND HEATING UTILITIES

PUBLIC SERVICE COMMISSION OF WISCONSIN
Accounts and Finance Division

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STATISTICS OF WISCONSIN PUBLIC UTILITIES

1985-1984--1983

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STATISTICS OF WISCONSIN PUBLIC UTILITIES

This bulletin presents a statistical summary of public utilities operating in Wisconsin during the period 1985-1983 inclusive. In addition, selected data over longer periods are shown in the text or portrayed in the charts. Some Wisconsin utilities have operations outside the State. These operations are generally excluded from the summaries but this was not possible in the case of financial data shown in Tables 1, 2, and 3.

The following table gives an indication of the relative importance of various utility services included in the report.

	Year Ending December 31, 1985		
	Average Number of Customers*#	Operating Revenues*	Net Operating Revenues*
Electric	1,917,559	$2,463,036,429	$608,299,532
Gas	1,108,253	1,653,391,831	72,960,038
Telephone	2,228,719	1,374,126,448	242,874,711
Water	965,442	179,242,604	32,015,522
Heating	587	12,142,297	1,311,557
		$5,681,939,609	$757,441,360

* Excludes out-of-state operations.
\# Ultimate consumers.

Chart 1 presents a comparison of trends in gross operating revenue since 1976. Gas utility revenues continue to have the greatest rate of growth with an increase of 2.7 times in 9 years. Electric and telephone revenues increased 2.3 and 2.2 times respectively while water revenues rose 1.9 times during the 9-year period.

Chart 2 shows that since 1976, net operating telephone revenues have risen 2.1 times, electric revenues 2.2 times, water revenues 2.4 times, and gas revenues 1.6 times.

CHART 1

COMPARATIVE TRENDS OF OPERATING REVENUES

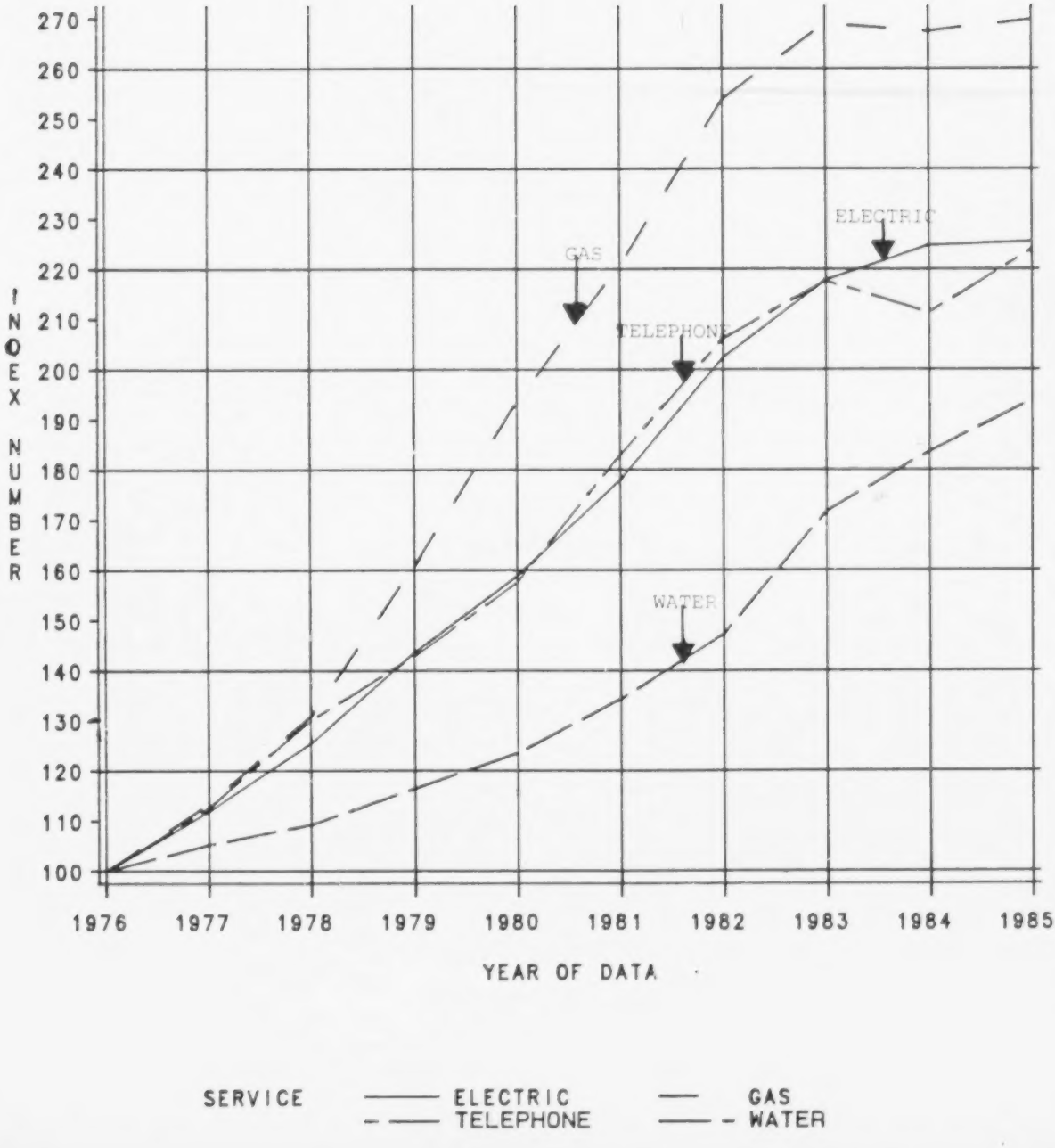
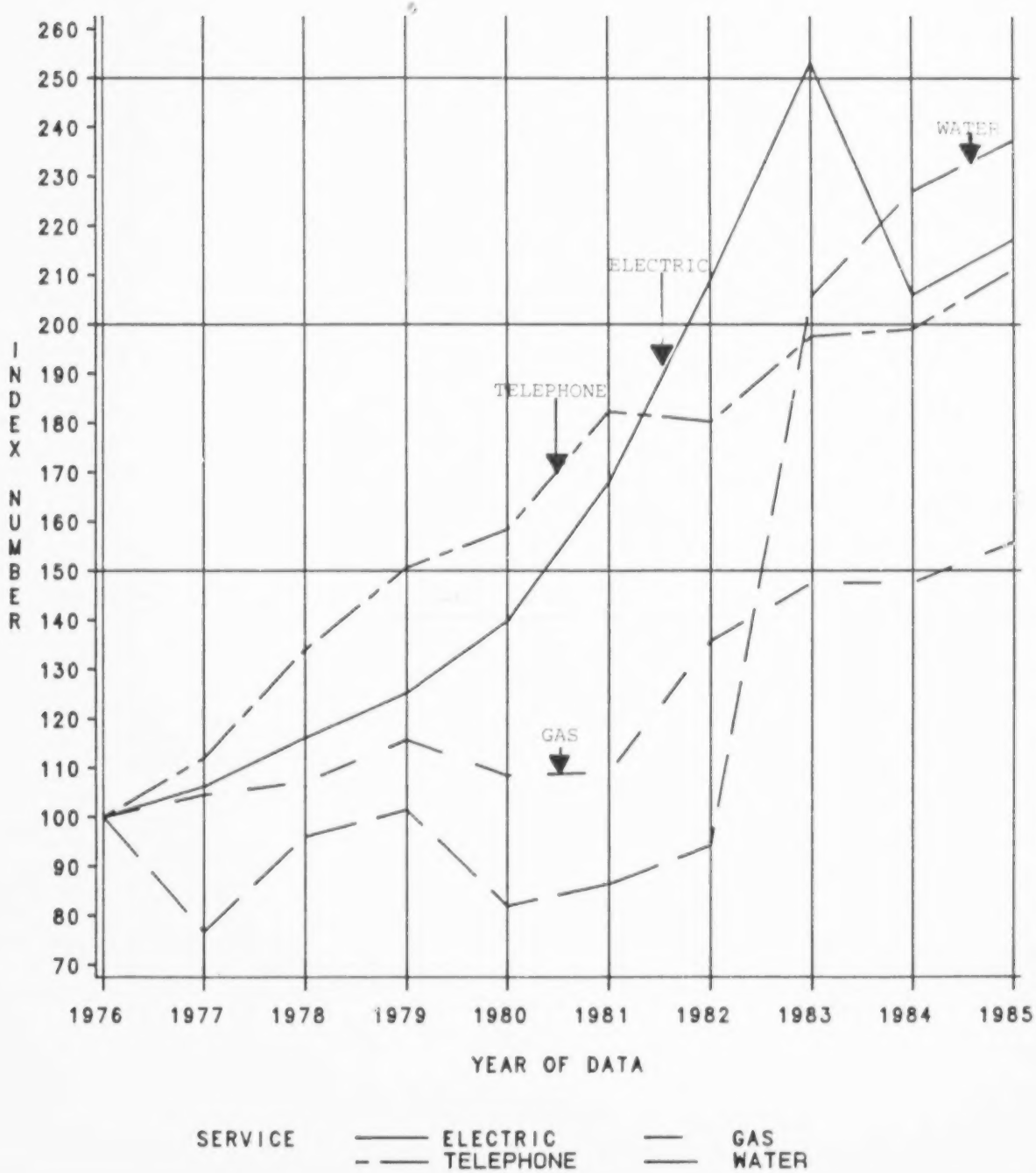


CHART 2

COMPARATIVE TRENDS OF NET OPERATING REVENUES



The number of public utilities operating in the State as of December 31, 1985 is summarized below. These figures include all utilities regardless of size.

	Total	Private	Municipal
Electric	97	13	84
Gas	16	15	1
Telephone	99*	99*	0
Water	555	12	543
Heating	2	1	1
Total	769	140	629

* There is 1 roadway company, 21 radio-telephone service companies, 21 resellers, two cellular mobile and four longline companies which are not included in these totals. Two Illinois based utilities that serve a few customers in Wisconsin are not included also.

FINANCIAL STATISTICS

Statistics on plant investment, capitalization and disposition of income are presented in this section of the bulletin. These data necessarily include all operations of Wisconsin utilities, including out-of-state operations of those utilities operating in neighboring states.

A number of municipalities include nonutility sewer operations in their water utility reports. Figures on income and capitalization reflect these operations when reported. It is to be emphasized, however, that sewer coverage presented herein is by no means complete since many municipalities operate their non-utility sewer departments independently and do not report those operations.

Utility Plant in Service and Accumulated Provisions for Depreciation:

Table 1 presents a summary of utility plant in service and accumulated provisions for depreciation of Wisconsin utilities during the period from 1983 through 1985. Charts 3, 4 and 5 show similar data in graphic form over the past 9 years.

About $11.8 billion are invested in utility plant by Wisconsin utilities. Of this amount, electric plant makes up 48.3% with telephone, water and gas plant amounting to 29.8%, 10.3% and 9.8% respectively. Sewer and heating plant make up another 1.8%.

Electric cooperatives and companies engaged in intrastate transmission of natural gas do not fall under the jurisdiction of the Wisconsin Public Service Commission and therefore, data covering these companies are not included in this study. Electric cooperatives did have gross plant investment in Wisconsin of about $710 million as of December 31, 1985. Gas pipeline companies had about $252.4 million in gross plant as of the same date.

Except for water and sewer service, public utility operations in Wisconsin are predominantly under private management. For example, municipalities own and operate 98% of the total water plant but only 4% of the electric plant, about 0.05% of the gas distribution plant and no telephone plant.

As of December 31, 1985, Wisconsin electric utilities had accumulated provisions for depreciation equal to 47% of electric plant in service. Telephone utilities had accumulated 34%, water utilities 22% and gas utilities 45%. The comparable figures in 1976 were 36%, 22%, 19% and 38% respectively.

Charts 3, 4, 5 and 6 show that utility plant in service has increased steadily over the past 9 years. Electric utility plant has increased 86% since 1976. Telephone plant is up 68% while water and gas plant increased 61% and 50% for the period.

Capitalization:

Capitalization of public utilities in Wisconsin is summarized in Table 2 and Charts 7 and 8. Total capitalization was about $7,911 million in 1985. Of that amount 80% was accounted for by private utilities with the remaining 20% being municipal investment.

Total capitalization was up 3.4% over 1984, and 48% over the past 10 years. Corresponding figures are 3.2% and 41% for private utilities and 4.3 and 82% for municipals. Charts 7 and 8 give graphic representation of these figures.

CHART 3

UTILITY PLANT IN SERVICE
AND ACCUMULATED PROVISION FOR DEPRECIATION
ELECTRIC UTILITIES

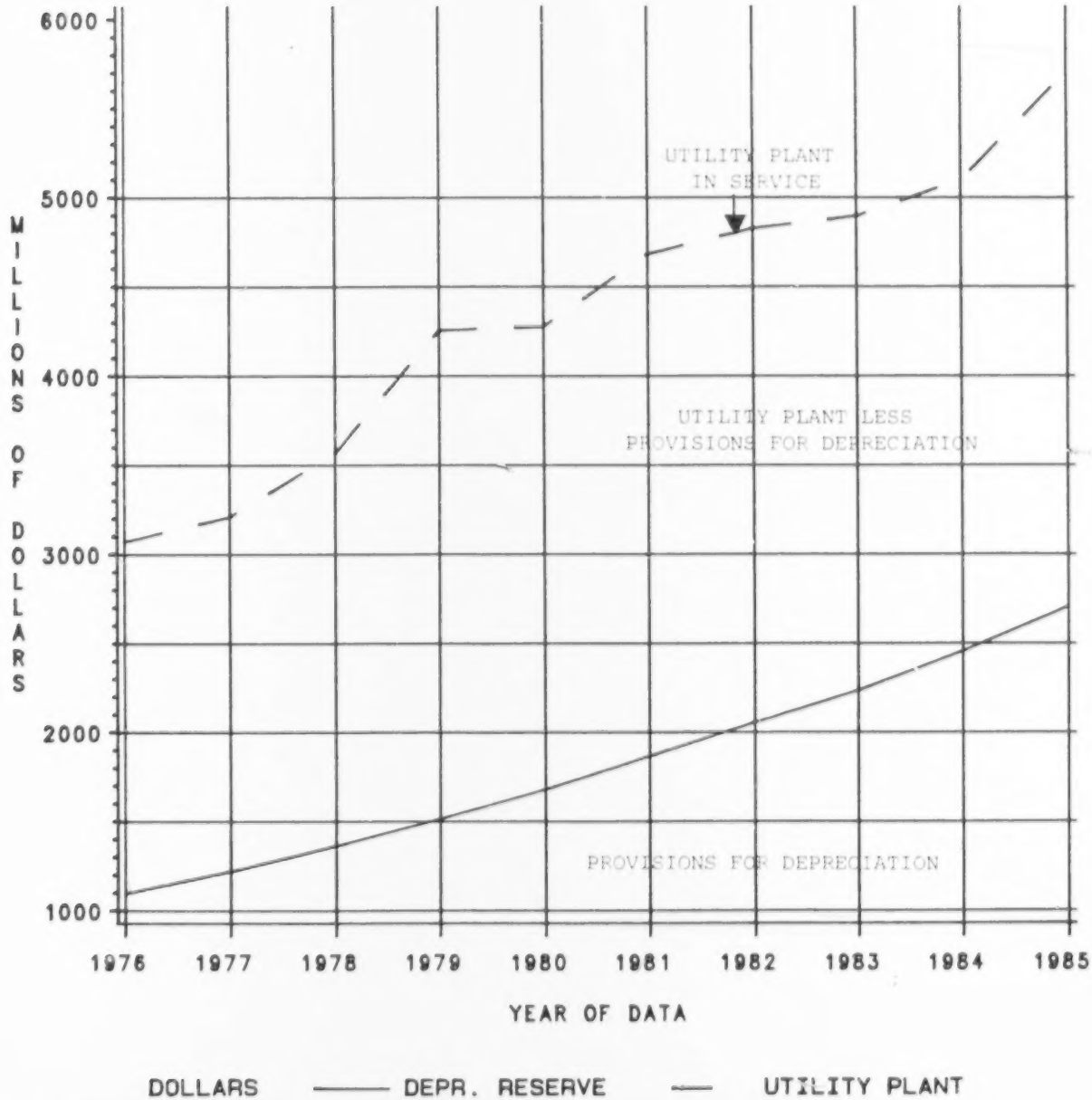


CHART 4

UTILITY PLANT IN SERVICE
AND ACCUMULATED PROVISION FOR DEPRECIATION
TELEPHONE UTILITIES

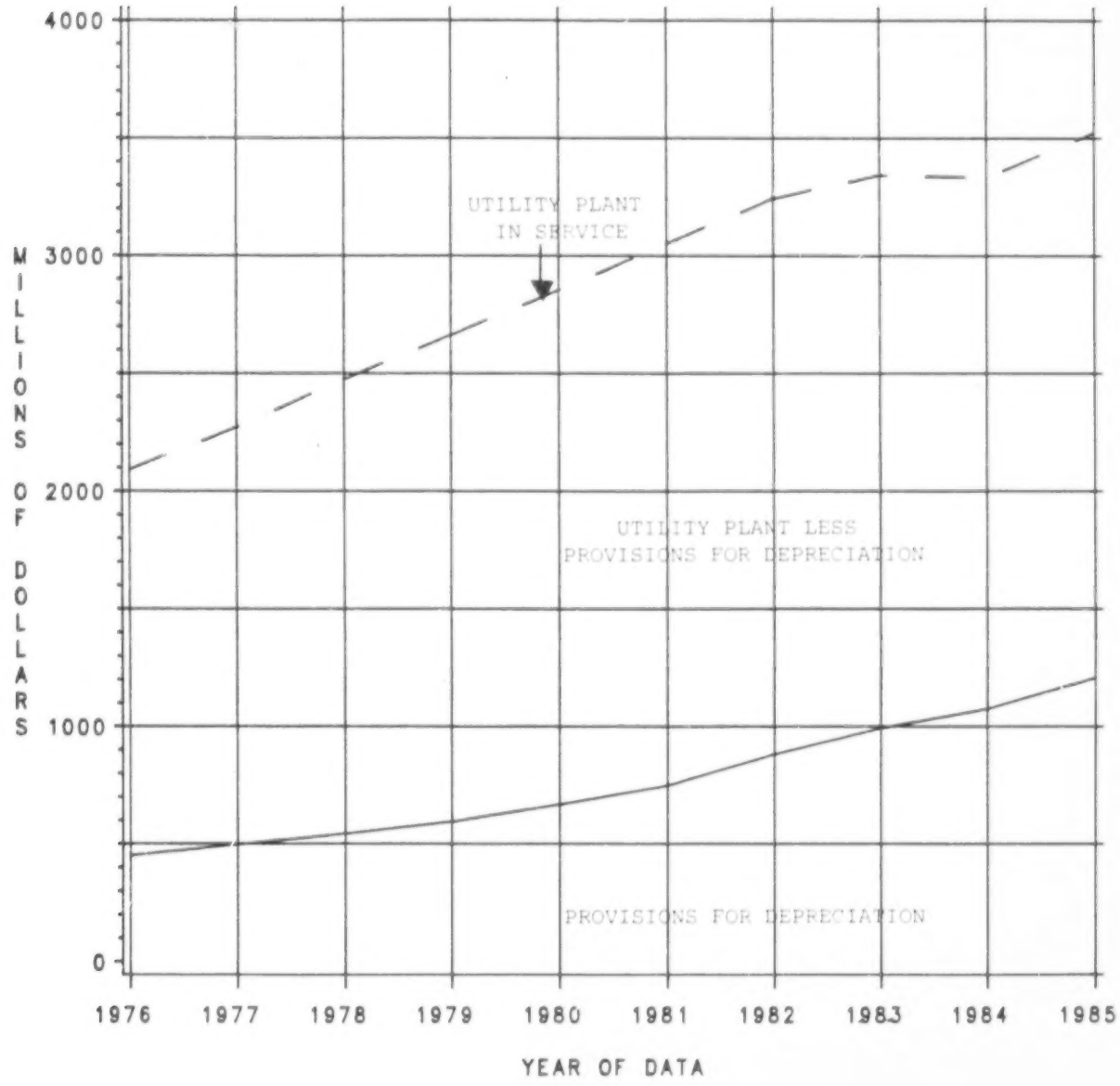


CHART 5

UTILITY PLANT IN SERVICE
AND ACCUMULATED PROVISION FOR DEPRECIATION
WATER UTILITIES

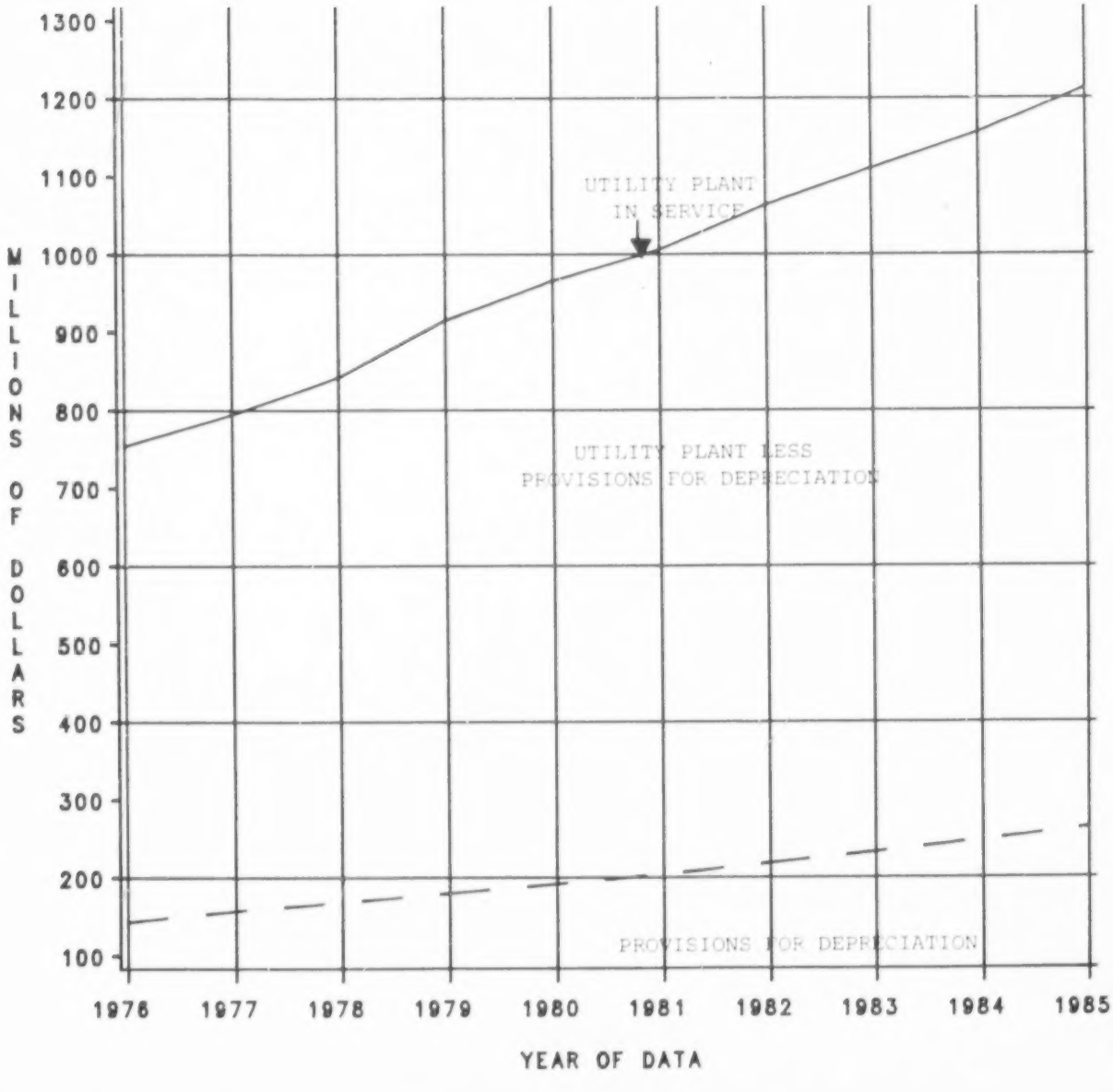
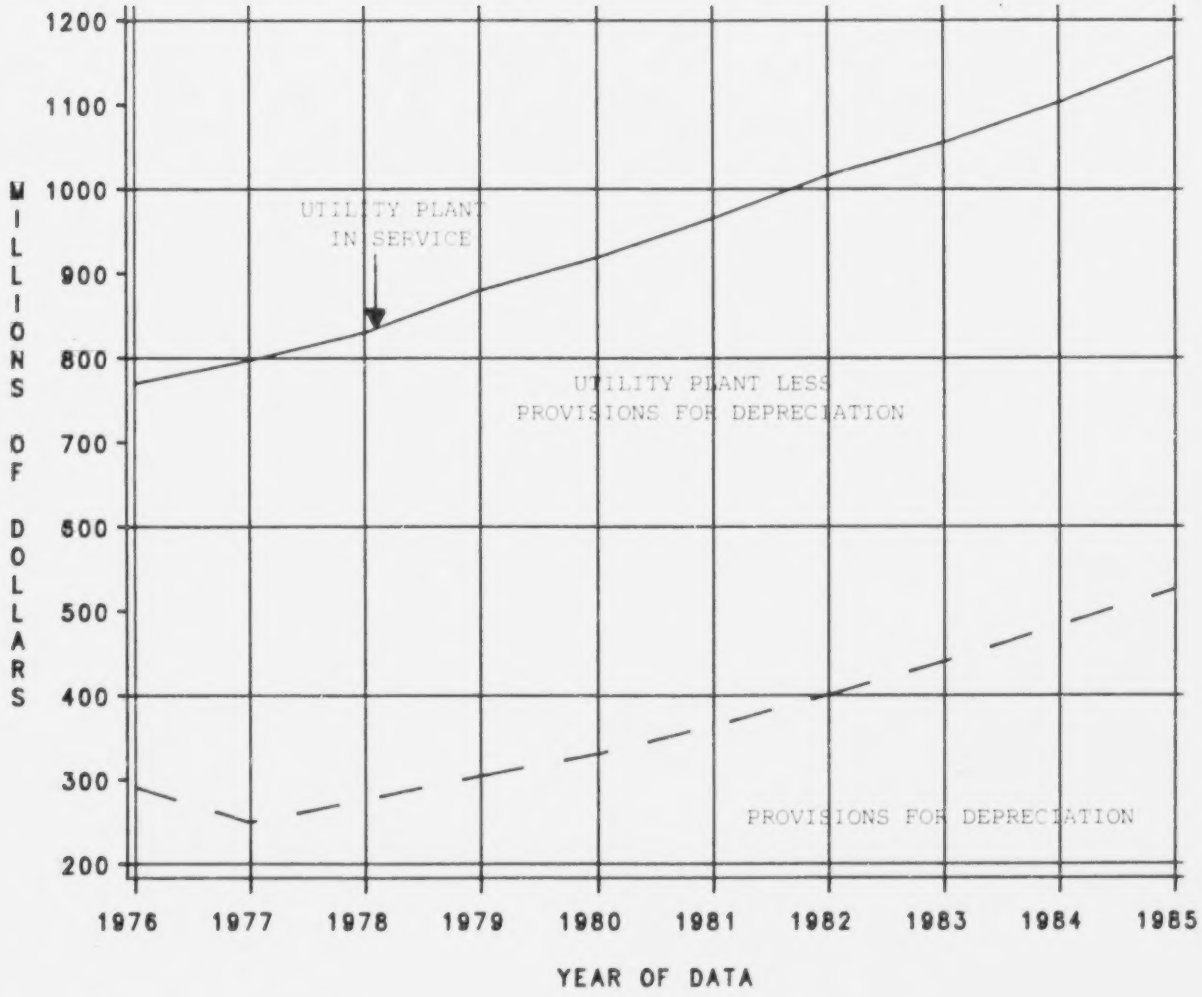


CHART 6

UTILITY PLANT IN SERVICE
AND ACCUMULATED PROVISION FOR DEPRECIATION
GAS UTILITIES



DOLLARS — DEPR. RESERVE ——— UTILITY PLANT

CHART 7

CAPITALIZATION OF PRIVATE UTILITIES OPERATING IN WISCONSIN

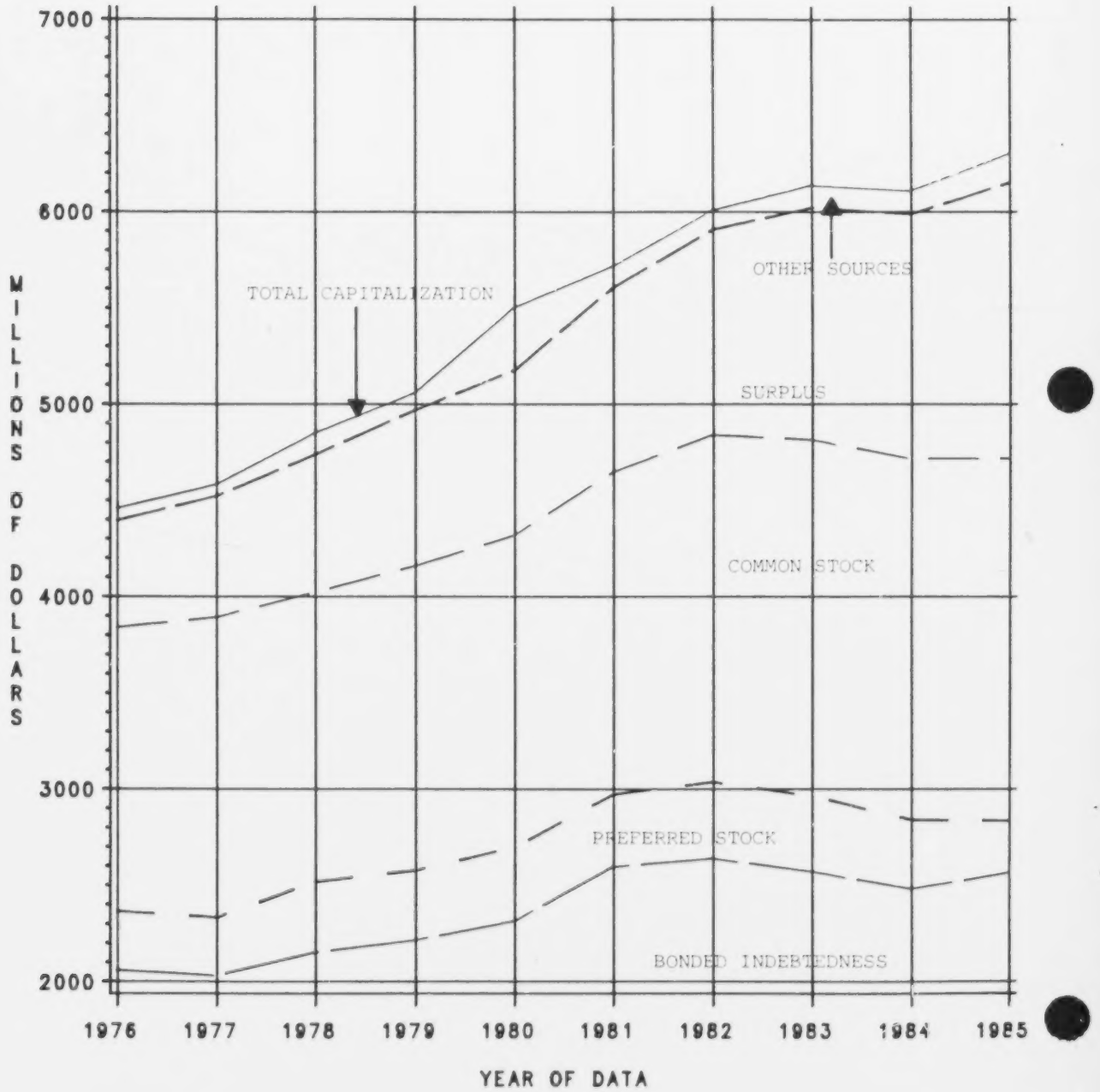


CHART 8

CAPITALIZATION OF MUNICIPAL UTILITIES OPERATING IN WISCONSIN

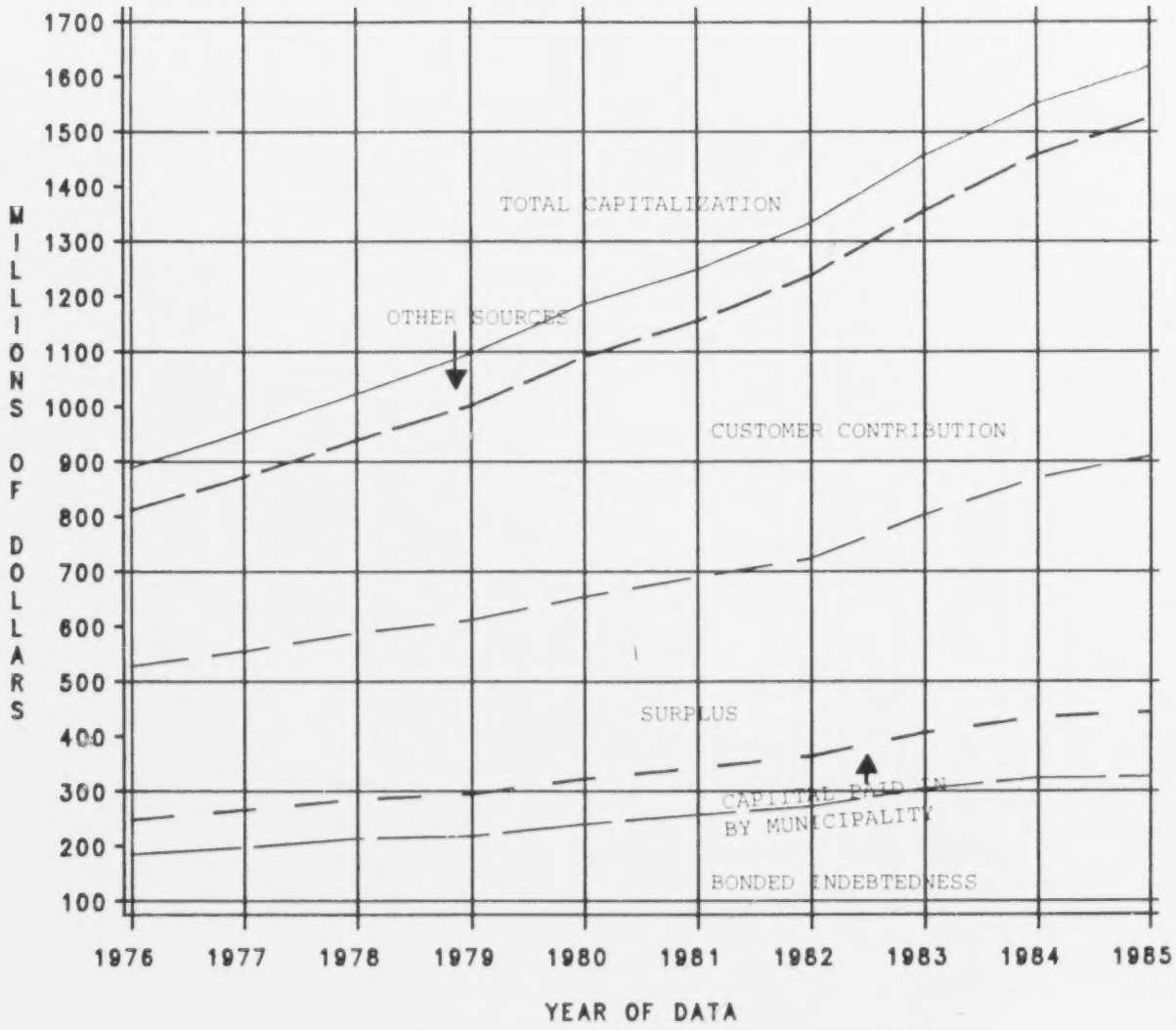


Chart 7 further shows bonds and common stock continue to be the largest source of capital for private utilities. Surplus also contributes a substantial share of total capitalization.

As shown below, Contributions in Aid of Construction is the largest item of municipal utility Capitalization. Surplus and Bonded Debt are next in size Capital Paid in by Municipalities was only about 7.4% of the total at the end of 1985.

A comparison of the capitalization of private and municipal utilities as of December 31, 1985 is presented below:

	Private Utilities	Municipal Utilities
Bonded Indebtedness	40.7%	20.0%
Common Stock or Capital Paid in by Municipality	29.8	7.4
Preferred Stock	4.4	0.0
Surplus	22.8	28.7
Advances from Affiliates or Municipalities	0.3	5.5
Contributions in Aid of Construction	1.6	38.2
Customer Advances in Aid of Construction	0.4	0.2
Total	100.0%	100.0%

Disposition of Income

The term 'gross income' as used here, is a net figure representing total income available to meet interest payments, dividends and similar items. The disposition of gross income is summarized in Table 3 and Charts 9 and 10.

Total gross income of private utilities in Wisconsin totaled $746.8 million in 1985, 0.2% below the preceding year. Interest and related deductions absorbed $204.8 million, preferred stock dividends $24.6 million, dividends on common stock $343.7 million, and $173.6 million were carried to surplus.

Municipal utilities had $60.8 million in gross income in 1985, down 3.1% from the preceding year. Interest and related charges amounted to $26.4 million, $1.7 million were appropriated to municipalities, and $32.7 million were carried to surplus.

Payments during 1985 on each class of security or equity, expressed as a percent of average book values at the beginning and close of the year are compared below:

	Private Utilities	Municipal Utilities
Interest on Long-Term Debt Divided by Long-Term Debt	7.62%	6.44%
Perferred Stock Dividends Divided by Preferred Stocks	8.96	0.00
Common Stock Dividends Divided by Common Stock	18.30	0.00
Appropriations to City Divided by Capital Paid in by Municipality	0.0	1.45
Common Stock Dividends Divided by Common Stock Plus Surplus	10.37	0.00
Appropriations to City Divided by Capital Paid in by Municipality Plus Surplus	0.00	0.30

CHART 9

DISPOSITION OF GROSS INCOME

PRIVATE UTILITIES OPERATING IN WISCONSIN

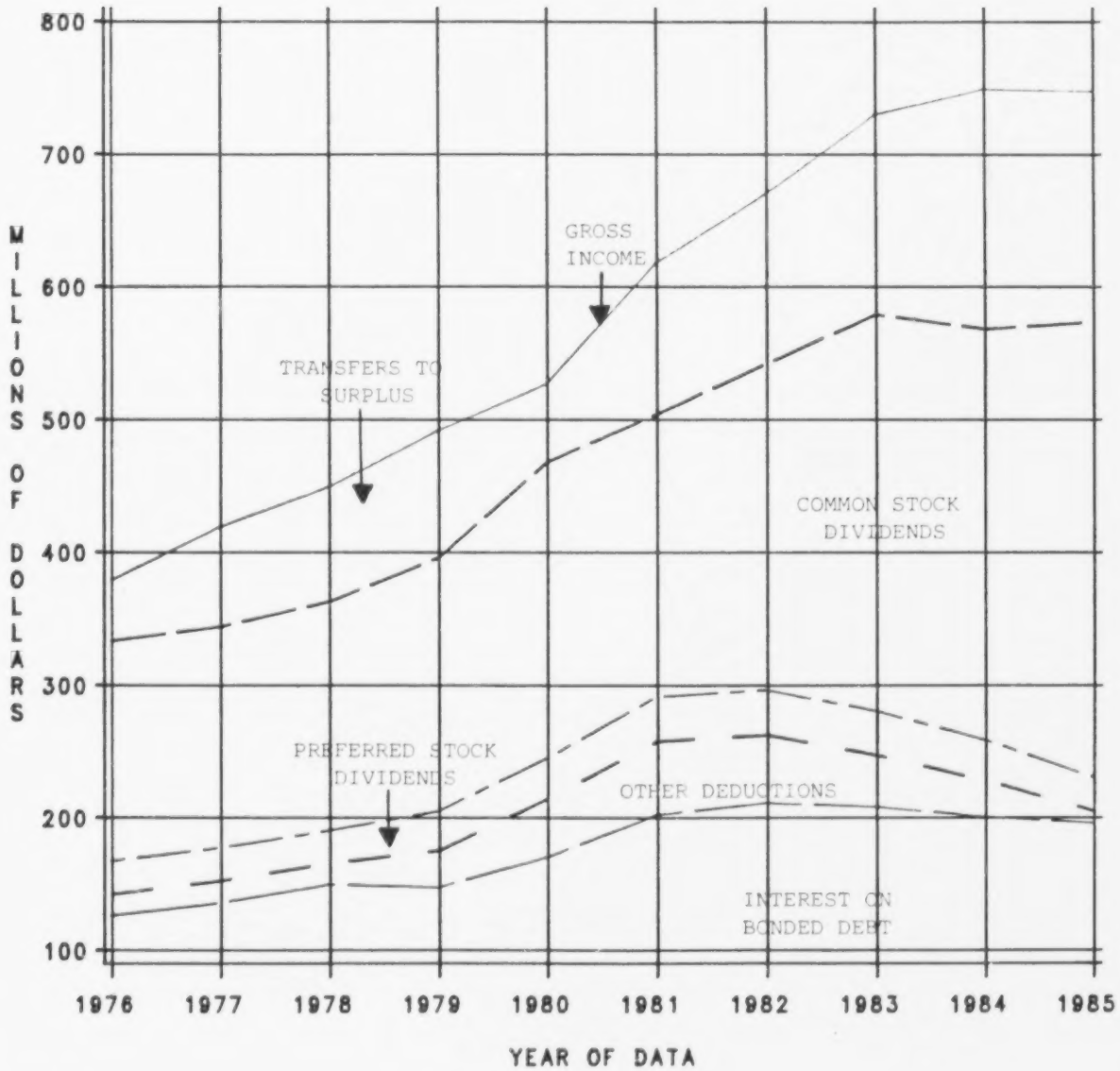


CHART 10

DISPOSITION OF GROSS INCOME

MUNICIPAL UTILITIES OPERATING IN WISCONSIN

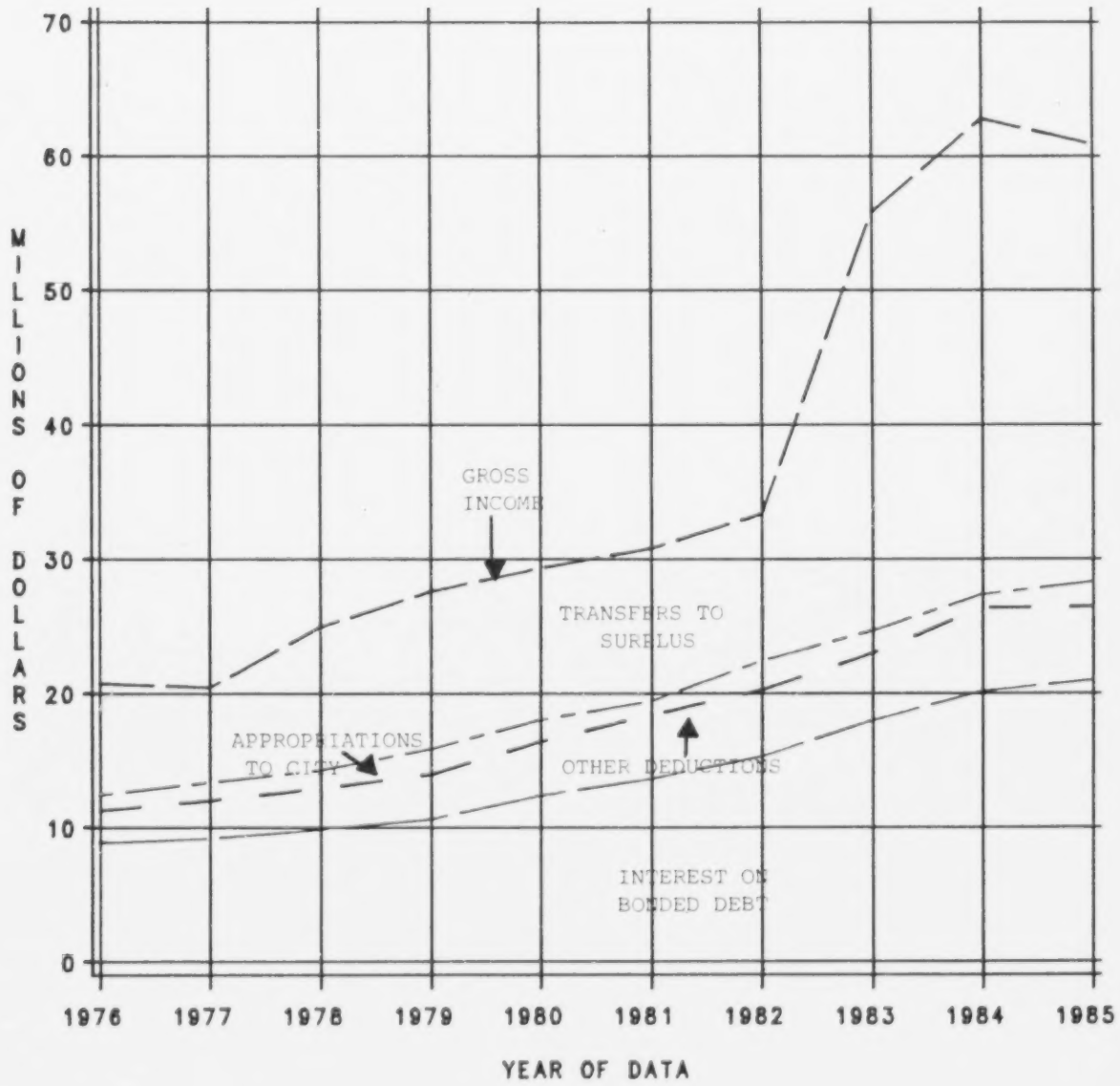


TABLE 1
SUMMARY OF UTILITY PLANT IN SERVICE AND
ACCUMULATED PROVISION FOR DEPRECIATION
PUBLIC UTILITIES OPERATING IN WISCONSIN 1/
1985-1983

	Dec. 31, 1985	Dec. 31, 1984	Dec. 31, 1983
All Utilities			
Utility Plant in Service 2/ 3/			
Electric	$ 5,703,684,631	$ 5,096,541,627	$ 4,895,296,087
Gas	1,156,585,706	1,102,299,899	1,054,928,480
Water	1,212,267,535	1,155,945,181	1,109,973,005
Sewer	192,198,158	191,559,192	183,880,145
Telephone	3,523,067,379	3,333,427,954	3,342,973,989
Heating	22,346,770	21,133,591	21,053,317
Total	$11,810,150,179	$10,900,907,444	$10,608,105,023
Accumulated Provision for Depreciation 2/ 3/			
Electric	$ 2,705,477,425	$ 2,455,053,864	$ 2,233,787,948
Gas	525,720,253	483,319,376	440,261,716
Water	263,947,466	247,785,262	232,576,877
Sewer	30,762,481	26,728,087	23,362,131
Telephone	1,206,971,869	1,074,457,991	993,207,337
Heating	10,547,264	9,968,155	9,282,033
Total	$ 4,743,426,758	$ 4,297,312,735	$ 3,932,478,042
Utility Plant Less Provision For Depreciation 2/ 3/			
Electric	$ 2,998,207,206	2,641,487,763	$ 2,661,508,139
Gas	630,865,453	618,980,523	614,666,764
Water	948,320,069	908,159,919	877,396,128
Sewer	161,435,677	164,831,105	160,518,014
Telephone	2,316,095,510	2,258,969,963	2,349,766,652
Heating	11,799,506	11,165,436	11,771,284
Total	$ 7,066,723,421	$ 6,603,594,709	$ 6,675,626,981
Private Utilities			
Utility Plant in Service 2/ 3/			
Electric	$ 5,455,740,086	4,864,313,138	$ 4,675,553,298
Gas	1,155,972,095	1,101,707,722	1,054,353,883
Water	20,621,782	20,363,053	19,845,947
Sewer	0	0	145,897
Telephone	3,523,067,379	3,333,427,954	3,342,973,989
Heating	22,039,837	20,826,651	20,750,165
Total	$10,177,441,179	$ 9,340,638,518	$ 9,113,623,179

TABLE 1 (Concluded)

SUMMARY OF UTILITY PLANT IN SERVICE AND
ACCUMULATED PROVISION FOR DEPRECIATION
PUBLIC UTILITIES OPERATING IN WISCONSIN 1/
1985-1983

	Dec. 31,1985	Dec. 31, 1984	Dec. 31, 1983
Private Utilities (Cont.)			
Accumulated Provision for Depreciation 2/ 3/			
Electric	$ 2,592,168,035	$ 2,348,174,673	$ 2,133,161,666
Gas	525,480,857	483,099,107	440,059,531
Water	6,625,245	6,098,037	5,621,527
Sewer	0	0	59,418
Telephone	1,206,971,869	1,074,457,991	993,207,337
Heating	10,508,033	9,936,586	9,258,375
Total	$ 4,341,754,039	$ 3,921,766,394	$ 3,581,367,854
Utility Plant Less Provision For Depreciation 2/ 3/			
Electric	$ 2,863,572,051	$ 2,516,138,465	$ 2,542,391,632
Gas	630,491,238	618,608,615	614,294,352
Water	13,996,537	14,265,016	14,224,420
Sewer	0	0	86,479
Telephone	2,316,095,510	2,258,969,963	2,349,766,652
Heating	11,531,804	10,890,065	11,491,790
Total	$ 5,835,687,140	$ 5,418,872,124	$ 5,532,255,325
Municipal Utilities			
Utility Plant in Service 2/			
Electric	$ 247,944,545	$ 232,228,489	$ 219,742,789
Gas	613,611	592,177	574,597
Water	1,191,645,753	1,135,582,128	1,090,127,058
Sewer	192,198,158	191,559,192	183,734,248
Heating	306,933	306,940	303,152
Total	$ 1,632,709,000	$ 1,560,268,926	$ 1,494,481,844
Accumulated Provision for Depreciation 2/			
Electric	$ 113,309,390	$ 106,879,191	$ 100,626,282
Gas	239,396	220,269	202,185
Water	257,322,221	241,687,225	226,955,350
Sewer	30,762,481	26,728,087	23,302,713
Heating	39,231	31,569	23,658
Total	$ 401,672,719	$ 375,546,341	$ 351,110,188
Utility Plant Less Provision for Depreciation 2/			
Electric	$ 134,635,155	$ 125,349,298	$ 119,116,507
Gas	374,215	371,908	372,412
Water	934,323,532	893,894,903	863,171,708
Sewer	161,435,677	164,831,105	160,431,535
Heating	267,702	275,371	279,494
Total	$ 1,231,036,281	$ 1,184,722,585	$ 1,143,371,656

1/ Total plant includes out-of-state properties.
2/ Including apportionment of common property.
3/ Excluding utility plant leased to others.

TABLE 2

COMPARATIVE STATEMENT OF CAPITALIZATION
PUBLIC UTILITIES OPERATING IN WISCONSIN 1/
1985-1983

	Dec. 31,1985	Dec. 31, 1984	Dec. 31, 1983
All Utilities			
Long-Term Debt Outstanding	$ 2,883,415,778	$ 2,798,262,363	$ 2,867,333,181
Advances from Affiliates or Municipality	108,383,135	87,663,143	92,560,545
Preferred Stock Outstanding	275,323,300	362,666,600	397,288,620
Common Stock Outstanding and Related Accounts	1,877,916,213	1,872,020,988	1,847,379,635
Capital Paid in by Municipality	120,160,248	112,775,624	104,104,789
Surplus	1,900,714,052	1,709,201,493	1,604,109,281
Customers' Advances in Aid of Construction	25,453,402	21,171,216	21,461,581
Contributions in Aid of Construction	719,689,717	687,356,712	650,455,849
Total	$ 7,911,055,845	$ 7,651,118,139	$ 7,584,693,481
Private Utilities			
Long-Term Debt Outstanding	$ 2,559,597,913	$ 2,476,732,672	$ 2,565,229,734
Advances from Affiliates	20,010,000	10,000	36,047
Preferred Stock Outstanding	275,323,300	362,666,600	397,288,620
Common Stock Outstanding and Related Accounts	1,877,916,213	1,872,020,988	1,847,379,635
Surplus	1,437,593,845	1,276,004,924	1,210,789,487
Customers' Advances in Aid of Construction	22,619,149	18,419,767	15,549,663
Contributions in Aid of Construction	101,864,769	96,245,847	94,998,064
Total	$ 6,294,925,189	$ 6,102,100,798	$ 6,131,271,250
Municipal Utilities			
Long-Term Debt Outstanding	$ 323,817,865	$ 321,529,691	$ 302,103,447
Advances from Municipality	88,373,135	87,653,143	92,524,498
Capital Paid in by Municipality	120,160,248	112,775,624	104,104,789
Surplus	463,120,207	433,196,569	393,319,794
Customers' Advances in Aid of Construction	2,834,253	2,751,449	5,911,918
Contributions in Aid of Construction	617,824,948	591,110,865	535,457,785
Total	$ 1,616,130,656	$ 1,549,017,341	$ 1,453,422,231

1/ These data necessarily represent total company figures. A few companies operate outside of Wisconsin. Electric, gas, water, sewer, heating and telephone utilities are included.

TABLE 3

DISPOSITION OF INCOME
PUBLIC UTILITIES OPERATING IN WISCONSIN 1/
1985-1983

	1985	1984	1983
All Utilities			
Net Operating Revenues			
Electric	$ 395,802,509	$ 381,537,125	$ 391,016,442
Gas	78,600,217	74,289,453	69,134,785
Telephone	242,874,710	228,953,942	227,320,542
Water	32,015,522	30,628,045	27,770,538
Sewer	2,841,648	1,682,330	1,208,320
Steam and Hot Water Heating	1,311,557	1,537,986	1,266,772
Total	$ 753,446,163	$ 718,628,881	$ 717,717,399
Income from Plant Leased to Others	$ 57,266	$ 105,899	$ 54,930
Income from Merchandising and Jobbing	205,027	352,997	73,233
Other Income - Net	53,938,862	92,110,532	67,497,939
Gross Income	$ 807,647,318	$ 811,198,309	$ 785,343,501
Interest on Long-Term Debt	$ 215,824,653	$ 219,712,036	$ 225,117,263
Amortization of Debt Discount and Premium	2,607,509	2,758,651	2,357,370
Interest on Debt to Associated Companies or City	8,480,273	7,365,264	6,845,603
Other Deductions	4,311,071	24,340,231	35,938,524
Net Income	$ 576,423,812	$ 557,022,127	$ 515,084,741
Dividend Appropriations on Preferred Stock	$ 24,670,196	$ 29,851,244	$ 32,621,265
Dividend Appropriations on Common Stock 2/	343,720,435	310,256,398	299,404,662
Appropriations to City	1,744,201	899,854	1,563,965
Balance Transferred to Surplus	$ 206,288,980	$ 216,014,631	$ 181,494,849

(Continued)

TABLE 3 (Continued)

DISPOSITION OF INCOME
PUBLIC UTILITIES OPERATING IN WISCONSIN 1/
1985-1983

	1985	1984	1983
Private Utilities			
Net Operating Revenues			
Electric	$ 387,899,602	$ 371,666,576	$ 380,521,390
Gas	78,556,270	74,269,115	69,103,347
Telephone	242,874,710	228,953,942	227,320,542
Water	1,311,966	1,130,201	1,171,206
Sewer	0	0	2,828
Steam and Hot Water Heating	1,309,177	1,530,473	1,277,379
Total	$ 711,951,725	$ 677,550,307	$ 679,396,692
Income from Plant Leased to Others	$ 56,366	$ 102,599	$ 54,030
Income from Merchandising and Jobbing	25,929	113,307	(73,135)
Other Income - Net	34,731,734	70,632,261	49,834,706
Gross Income	$ 746,765,754	$ 748,398,474	$ 729,212,293
Interest on Long-Term Debt	$ 194,955,479	$ 199,661,383	$ 207,267,243
Amortization of Debt Discount and Premium	1,697,219	2,017,598	1,745,112
Interest on Debt to Associated Companies	2,894,186	2,134,389	1,865,985
Other Deductions	5,238,778	24,023,591	36,076,421
Net Income	$ 541,980,092	$ 520,561,513	$ 482,257,532
Dividend Appropriations on Preferred Stock	$ 24,670,196	$ 29,851,244	$ 32,621,265
Dividend Appropriations on Common Stock 2/	343,720,435	310,256,398	299,404,662
Balance Transferred to Surplus	$ 173,589,461	$ 180,453,871	$ 150,231,605

TABLE 3 (Concluded)

DISPOSITION OF INCOME
PUBLIC UTILITIES OPERATING IN WISCONSIN 1/
1985-1983

	1985	1984	1983
Municipal Utilities			
Net Operating Revenue			
Electric	$ 7,902,907	$ 9,870,549	$ 10,495,052
Gas	43,947	20,338	31,438
Water	30,703,556	29,497,844	26,599,332
Sewer	2,841,648	1,682,330	1,205,492
Steam and Hot Water Heating	2,380	7,513	(10,607)
Total	$ 41,494,438	$ 41,078,574	$ 38,320,707
Income from Plant Leased to Others	$ 900	$ 3,300	$ 900
Income from Merchandising and Jobbing	179,098	239,690	146,368
Other Income - Net	19,207,128	21,478,271	17,663,233
Gross Income	$ 60,881,564	$ 62,799,835	$ 56,131,208
Interest on Long-Term Debt	$ 20,869,174	$ 20,050,653	$ 17,850,020
Amortization of Debt Discount and Premium	910,290	741,053	612,258
Interest on Debt to City	5,586,087	5,230,875	4,979,618
Other Deductions	(927,707)	316,640	(137,897)
Net Income	$ 34,443,720	$ 36,460,614	$ 32,827,209
Appropriations to City	$ 1,744,201	$ 899,854	$ 1,563,965
Balance Transferred to Surplus	$ 32,699,519	$ 35,560,760	$ 31,263,244

1/ Includes out-of-state operations of Wisconsin utilities.
2/ Excluding Stock Dividends.

ELECTRIC UTILITY STATISTICS

Comparative statistics of Wisconsin electric utilities for the 3-year period, 1983 to 1985, are summarized in this section. Out-of-state operations are excluded (except in tables 7, 8 and 9 where data on out-of-state sales, purchases and generating plant are presented).

The following tables and charts present the data covering electric utility operations:

Table 4 - Comparative Statement of Revenues and Expenses, 1985-1983
Table 5 - Sales to Ultimate Consumers, 1985-1983
Table 6 - Comparative Statement of Operating Expenses, 1985-1983
Table 7 - Summary of Megawatt Hours Sold and Used, 1985-1983
Table 8 - Megawatt Hours Generated and Purchased, 1985-1983
Table 9 - Generating Plant, Substation and Transmission Line Data, 1985-1983
Table 10 - Condensed Summary of 1985 Operations - Individual Private Electric Utilities
Table 11 - Condensed Summary of 1985 Operations - Individual Municipal Electric Utilities
Chart 11 - Residential Electric Customers - Annual Kilowatt Hour Sales Wisconsin and United States, 1976-1985
Chart 12 - Residential Electric Customers - Revenue per Kilowatt Hour Wisconsin and United States, 1976-1985
Chart 13 - Residential Electric Customers - Average Annual Bill Wisconsin and United States, 1976-1985
Chart 14 - Comparison of Revenues and Expenses, Wisconsin Electric Utilities, 1976-1985
Chart 15 - Revenues from Sales to Ultimate Consumers by Individual Wisconsin Electric Utilities, Percent of Total, 1985

Electric Consumers

The total number of ultimate (retail) electric consumers increased 1.06% over 1984. Residential customers increased 0.91% and rural customers increased 1.99%. Commercial and industrial customers increased 1.77%.

As has already been pointed out, electric cooperatives are not included in the tables. These organizations served an estimated 160,000 customers during 1985. This was 53% of all rural electric customers served in the state.

Revenue and Consumption Ratios

Kilowatt hours sold to ultimate consumers in Wisconsin rose 1.84% during 1985. Commercial and industrial consumption rose 1.62% during the year as did residential and rural consumption at 0.97% and 5.44% respectively.

State-wide averages by class of service for revenue per megawatt hour are compared below:

	1985	1984	1983
Residential	$67.03	$67.19	$66.91
Commercial and Industrial	51.53	52.12	52.84
Rural	63.79	64.48	64.38
Public St. and Hwy. Lighting	70.56	77.31	75.96
Other Sales to Public Auth.	50.56	51.04	50.94
Interdepartmental Sales	52.04	52.33	51.24
Total Ultimate Consumers	$56.72	$57.23	$57.79

State-wide average ratios of kilowatt hour consumption per customer and revenue per customer are compared below for the three major classes of service:

	1985	1984	1983
Average Annual Use (kWh)			
Residential	7,071	7,067	7,140
Commercial and Industrial	128,641	128,827	122,335
Rural	14,588	14,112	14,046
Average Annual Bill			
Residential	$ 473.92	$ 474.80	$ 477.70
Commercial and Industrial	6,629.38	6,714.72	6,464.05
Rural	930.62	909.98	904.29

Average annual use for residential customers increased by 0.06%, commercial and industrial decreased by 0.14% and rural increased by 3.37%. Average annual bills for residential customers decreased by (0.19)%. Commercial and industrial bills also decreased by (1.27)% while rural bills increased 2.27%.

Residential revenue and consumption ratios of Wisconsin utilities are compared with national averages over a 9-year period in Charts 11, 12, and 13. In 1985, the average Wisconsin residential customer consumed 27.0% fewer kilowatt hours and paid an average bill that was 39.7% less than the national average.

Electric Utility Income Account

A summary of the income account of Wisconsin electric utilities for the past three years is presented in Table 4. A 9-year graphic comparison is made in Chart 14.

Operating revenues continue to rise steadily with 1985 revenues up 0.4% over 1984. Total operating expenses decreased (0.6)% and net operating revenues increased by 5.4%.

Table 6 presents a detailed analysis of operating expenses, exclusive of depreciation and taxes. Of the classes of expense shown, customer accounts had the greatest increase which was 12.9%. Sales was least with (11.6)% decrease.

A comparison of certain expense ratios of private and municipal utilities in 1985 is presented below:

	1985 Expense Ratios					
	Per Dollar of Revenue		Per Average Customer		Per MWh Sold	
	Pvt.(Ct)	Mun.(Ct)	Pvt.	Mun.	Pvt.	Mun.
Production and Trans.	42.88	80.20	$ 558.71	$ 896.95	$ 27.17	$ 41.48
Distribution	5.40	3.54	70.39	39.62	3.42	1.83
Customer Accounts	2.38	1.53	30.99	17.07	1.51	0.79
Customer Services	0.98	0.00	12.79	0.00	0.62	0.00
Sales Promotion 1/	0.06	0.01	0.77	0.07	0.04	0.01
Admin. & General	6.34	4.23	82.57	47.33	4.02	2.18
Total Oper. and Main.	58.04	89.51	756.22	1,001.04	36.78	46.29
Depreciation	11.76	3.87	153.13	43.36	7.45	2.01
Taxes O/T Inc. Taxes	2.83	2.92	36.85	32.64	1.79	1.50
Income Taxes	9.57	0.00	124.72	0.00	6.07	0.00
Total Operating Exp.	82.20	96.30	$1,070.92	$1,077.04	$ 52.09	$ 49.80

1/ Includes customer service expenses for municipally owned utilities.

CHART 11

ANNUAL KILOWATT HOUR SALES
RESIDENTIAL ELECTRIC CUSTOMERS

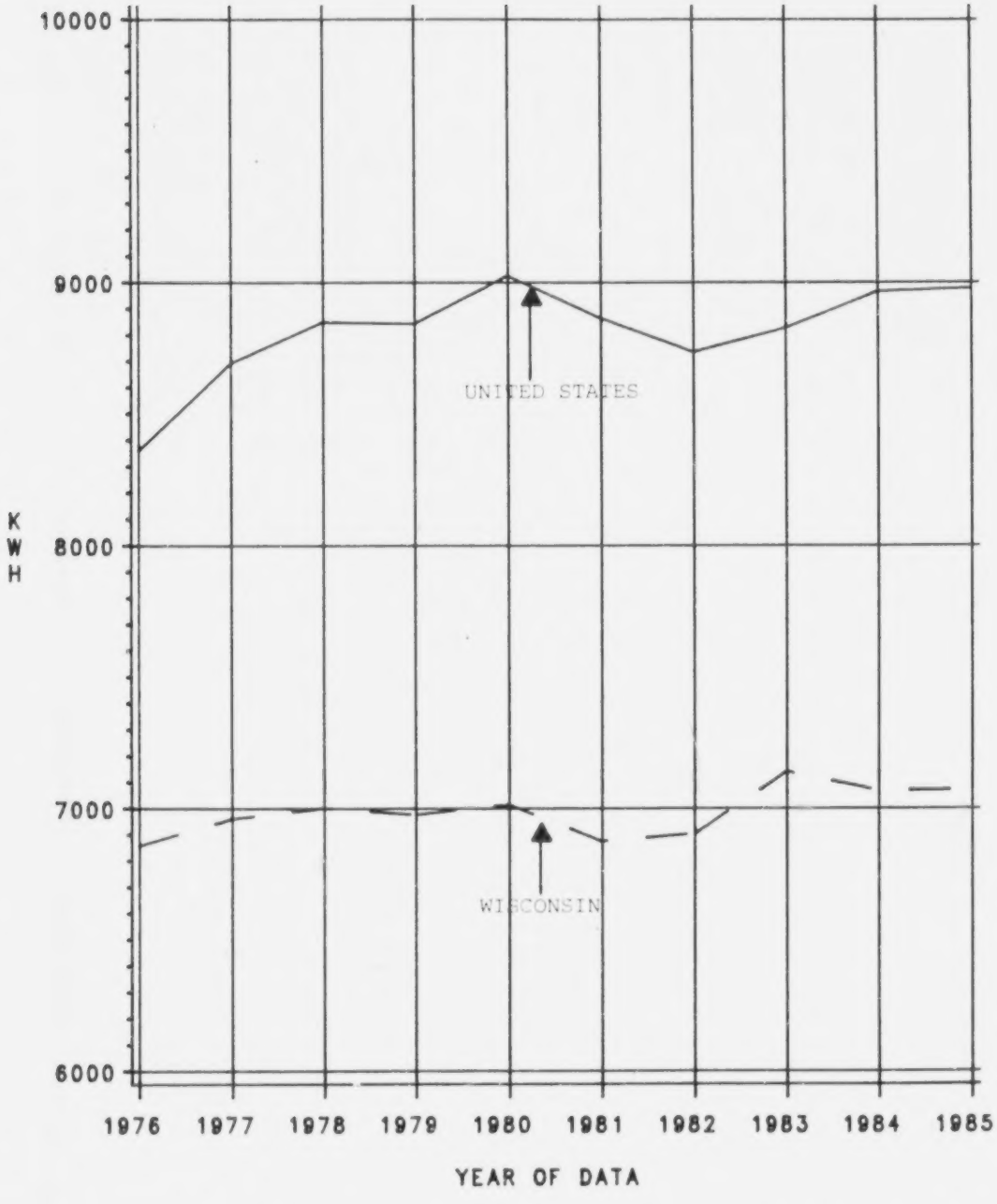


CHART 12

REVENUE PER KILOWATT HOUR
RESIDENTIAL ELECTRIC CUSTOMERS

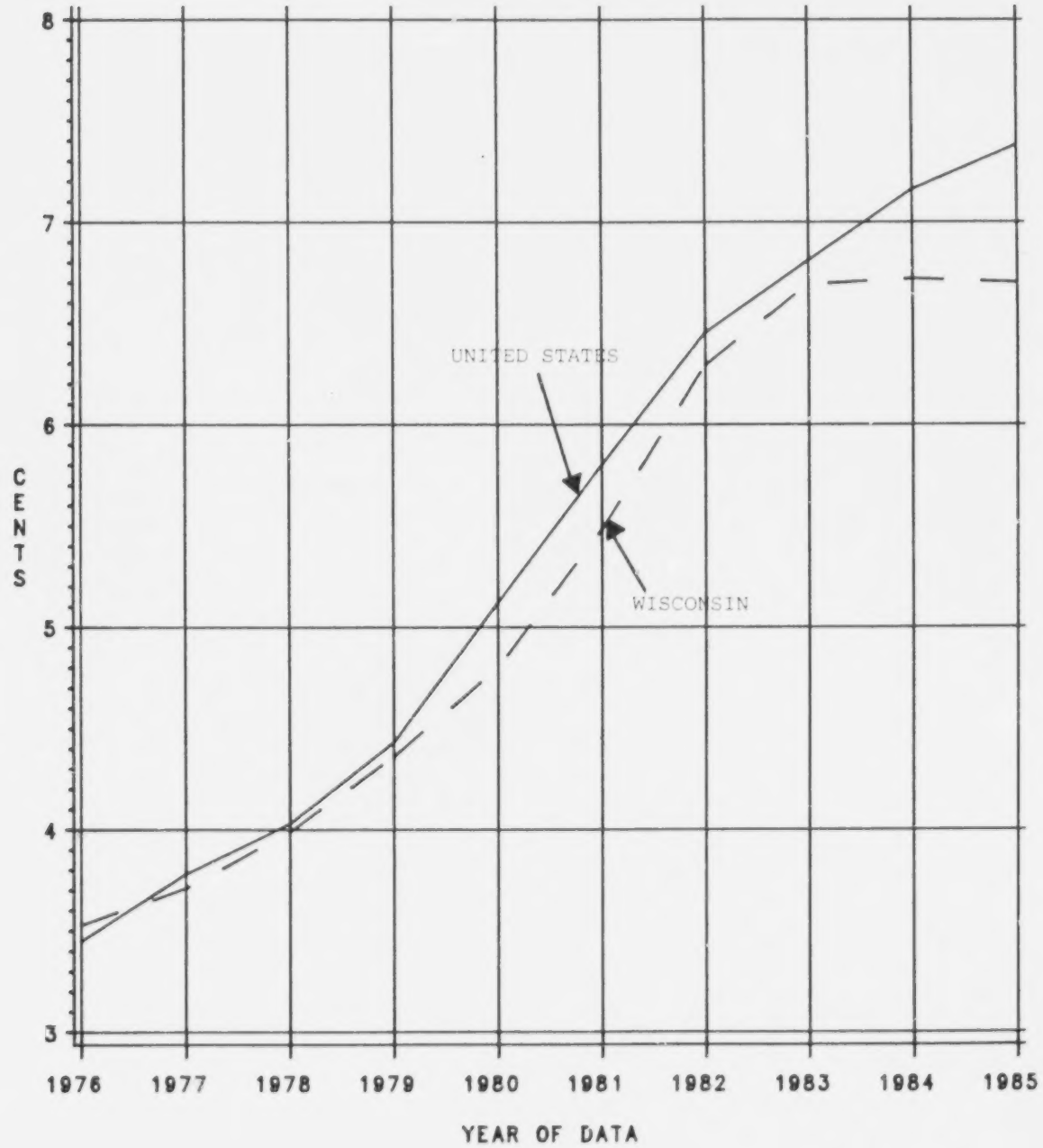


CHART 13

AVERAGE ANNUAL BILL
RESIDENTIAL ELECTRIC CUSTOMERS

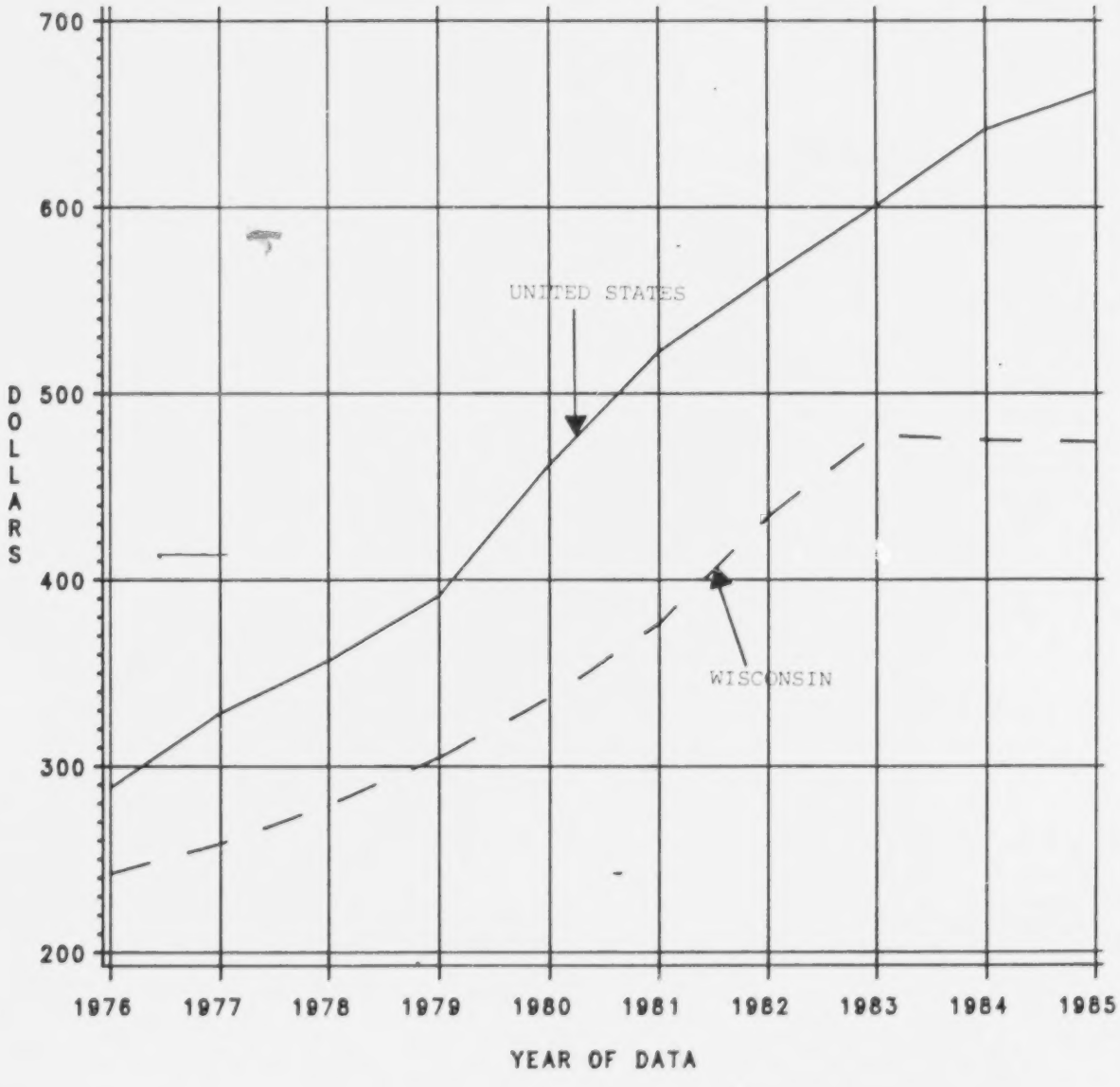
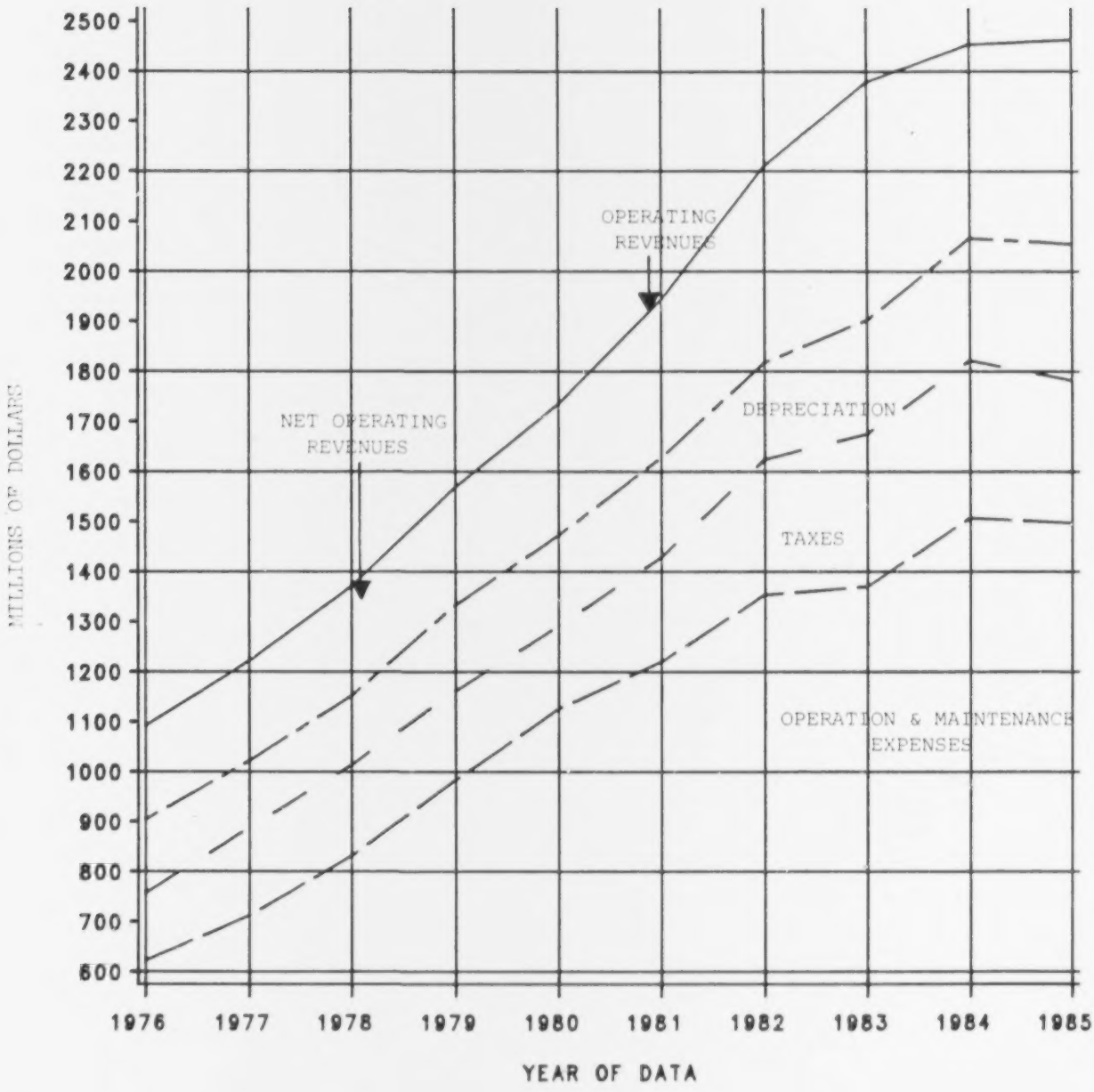


CHART 14

WISCONSIN ELECTRIC UTILITIES REVENUES AND EXPENSES



In addition to the above breakdown of operating expenses, Table 6 presents the detail of production expense on a company-wide basis. If this breakdown is related to corresponding data on generation and purchases, the following comparison of costs per megawatt hour, exclusive of fixed charges, results:

	Production Expense* Per Megawatt Hour Generated or Purchased 1985	
	Private Utilities	Municipal Utilities
Steam Plants-Nuclear Fuel	$ 13.43	$ 0.00
Steam Plants-Fossil Fuel	25.25	55.05
Hydro Electric Plants	6.24	3.96
Internal Combustion (Recip. & Turbine)	282.79	153.41
Purchased Energy	26.16	39.24

*Excludes depreciation, taxes, and return.

Kilowatt Hours Generated and Purchased; Fuel Consumed

The sources of energy of Wisconsin electric utilities are summarized in Table 8. The net generation by plants located in Wisconsin is compared below on a percentage basis over a period of ten years:

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976
Steam-Nuclear	27.9%	28.2%	25.7%	30.3%	30.1%	28.4%	29.7%	34.3%	33.3%	33.0
Steam-Fossil	65.6	66.9	67.0	63.9	64.5	65.9	62.9	58.1	60.8	60.9
Hydro	6.5	4.8	7.1	5.6	4.8	4.6	5.0	5.1	4.2	3.6
Int. Comb.-Recip.	1/	1/	1/	1/	1/	0.1	0.1	0.2	0.1	0.6
Int. Comb.-Turbine	1/	0.1	0.2	0.2	0.6	1.0	2.3	2.3	1.6	1.9
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

During the ten years covered, fossil steam generating plants have produced a major portion of the State's electric energy, varying from a high of 67.0% in 1983 to a low of 58.1% in 1978. Privately owned utilities generated 99.1% of total energy produced by utilities in 1985. The most significant change has been the nuclear plants which generated no energy in 1970 but now produce about 30% of the total.

Fuel consumption ratios over the past five years are presented below:

	1985	1984	1983	1982	1981
BTU's of Fuel Used in Nuclear Steam Plants Per kWh Generated (Net)	10,568	10,580	10,816	10,830	10,844
BTU's of Fuel Used in Fossil Steam Plants Per kWh Generated (Net)	10,516	10,939	10,920	11,805	11,070
BTU's of Fuel Used in Turbine Plants Per kWh Generated (Net)	18,185	17,954	16,378	15,264	16,313
BTU's of Fuel Used in Reciprocating Plants Per kWh Generated (Net)	9,450	11,268	10,810	10,470	12,151

1/ Less than 0.05%.

Generating Plant and Transmission Line Data

Data on the capacity of generating plants and miles of transmission pole line are presented in Table 9. The total capacity of all generating plants operated by Wisconsin utilities as of December 1985 was about 10,000 megawatts of which about 100 megawatts were in plants located outside the State. Of the capacity of plants located in Wisconsin, 14.8% is steam-nuclear, 68.5% is steam-fossil, 3.4% is hydro, 1.1% is by reciprocating engines, and 12.2% is turbine.

About 9,231 miles of transmission line were in service at the close of 1985 of which about 4,393 miles carry voltage in excess of 100,000 volts.

Data on Individual Utilities

Table 10 presents selected operating data covering the year 1985 for each Class A, B, and C private electric utility in the State and Table 11 presents similar data on each Class A, B, and C municipal electric utility. Chart 15 shows the percentage distribution by companies of electric operating revenue from sales to ultimate consumers. Four large private utilities account for 82% of the total. Municipal utilities make up 8%.

Table 10 shows that private utilities as a group generated a large part of their energy requirements while Table 11 shows that municipal utilities purchase most of their requirements. Of the 77 individual municipal utilities listed, only 17 generated some electricity.

CHART 15

REVENUES OF WISCONSIN ELECTRIC UTILITIES
IN PERCENT OF TOTAL SALES TO ULTIMATE CONSUMERS
1985

SUM OF PERCENT BY UTILITY

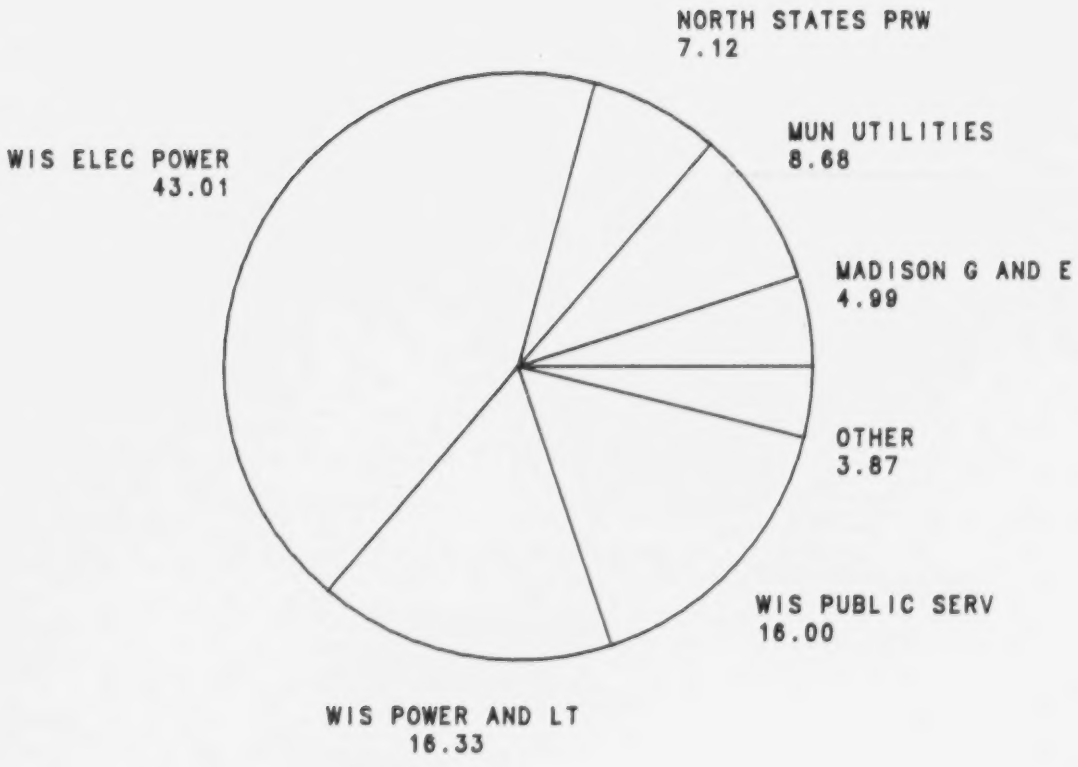


TABLE 4

COMPARATIVE STATEMENT OF REVENUES AND EXPENSES
WISCONSIN ELECTRIC UTILITIES 1/
1985-1983

	1985	1984	1983
All Electric Utilities			
Operating Revenues			
Sales to Ultimate Consumers	$ 2,247,768,797	$ 2,226,923,676	$ 2,163,446,079
Sales to Other Utilities	183,552,864	195,012,726	182,142,333
Sales to Electric Cooperatives	12,870,339	12,691,716	12,762,458
Miscellaneous Revenues	18,844,429	19,553,192	20,171,531
Total Operating Revenues	$ 2,463,036,429	$ 2,454,181,310	$ 2,378,522,401
Operating Revenue Deductions			
Operation and Maintenance	$ 1,496,886,478	$ 1,507,357,486	$ 1,369,912,065
Depreciation and Amortization	272,654,856	245,296,001	227,754,716
Taxes Other than Income Taxes	69,866,428	100,363,764	90,408,748
Income Taxes	215,329,135	213,984,944	214,582,198
Total Operating Expenses	$ 2,054,736,897	$ 2,067,002,195	$ 1,902,657,727
Net Operating Revenues	$ 408,299,532	$ 387,179,115	$ 475,864,674
Private Electric Utilities			
Operating Revenues			
Sales to Ultimate Consumers	$ 2,038,104,646	$ 2,022,880,109	$ 1,967,257,496
Sales to Other Utilities	183,163,448	194,787,508	181,904,277
Sales to Electric Cooperatives	12,870,339	12,381,337	12,444,706
Miscellaneous Revenues	15,192,006	15,986,884	17,166,101
Total Operating Revenues	$ 2,249,330,439	$ 2,246,035,838	$ 2,178,772,580
Operating Revenue Expenses			
Operation and Maintenance	$ 1,305,606,288	$ 1,322,111,394	$ 1,192,956,878
Depreciation and Amortization	264,369,410	237,478,330	220,230,953
Taxes Other than Income Taxes	63,628,979	95,152,604	85,632,929
Income Taxes	215,329,135	213,984,944	214,582,198
Total Operating Expenses	$ 1,848,933,812	$ 1,868,727,272	$ 1,713,402,958
Net Operating Revenues	$ 400,396,627	$ 377,308,566	$ 465,369,622

(Continued)

TABLE 4 (Concluded)

COMPARATIVE STATEMENT OF REVENUES AND EXPENSES
WISCONSIN ELECTRIC UTILITIES 1/
1985-1983

Municipal Electric Utilities	1985	1984	1983
Operating Revenues			
Sales to Ultimate Consumers	$ 209,664,151	$ 204,043,567	$ 196,188,583
Sales to Other Electric Utilities	389,416	225,218	238,056
Sales to Electric Cooperatives	0	310,379	317,752
Miscellaneous Operating Revenues	3,652,423	3,566,308	3,005,430
Total Operating Revenues	$ 213,705,990	$ 208,145,472	$ 199,749,821
Operating Revenue Expenses			
Operation and Maintenance	$ 191,280,190	$ 185,246,092	$ 176,955,187
Depreciation and Amortization	8,285,446	7,817,671	7,523,763
Taxes Other than Income Taxes	6,237,449	5,211,160	4,775,819
Total Operating Expenses	$ 205,803,085	$ 198,274,923	$ 189,254,769
Net Operating Revenues	$ 7,902,905	$ 9,870,549	$ 10,495,052

1/ Excluding out-of-state operations.

TABLE 5

SALES TO ULTIMATE CONSUMERS BY CLASS
WISCONSIN ELECTRIC UTILITIES 1/
1985-1983

All Electric Utilities	1985	1984	1983
Revenues			
Residential	$ 743,994,944	$ 738,629,643	$ 734,328,421
Commercial and Industrial	1,323,184,554	1,316,905,267	1,257,607,585
Rural	133,300,453	127,794,486	126,269,243
Public Street and Highway Lighting	30,248,012	27,012,683	29,078,732
Other Sales to Public Authorities	12,627,049	12,572,302	12,458,762
Interdepartmental Sales	4,413,785	4,009,294	3,703,336
Total Revenue from Ultimate Consumers	$2,247,768,797	$2,226,923,675	$2,163,446,079
Megawatt Hours Sold			
Residential	11,100,196	10,993,340	10,975,229
Commercial and Industrial	25,676,013	25,265,824	23,800,741
Rural	2,089,620	1,981,775	1,961,354
Public Street and Highway Lighting	428,706	349,421	382,819
Other Sales to Public Authorities	249,733	246,319	244,574
Interdepartmental Sales	84,822	76,612	72,279
Total Megawatt Hours Sold to Ultimate Consumers	39,629,090	38,913,291	37,436,996
Average Number of Customers 2/			
Residential	1,569,878	1,555,666	1,537,212
Commercial and Industrial	199,594	196,122	194,554
Rural	143,239	140,436	139,633
Public Street and Highway Lighting	3,858	4,177	3,286
Other Sales to Public Authorities	881	983	863
Interdepartmental Sales	109	109	109
Total Ultimate Consumers	1,917,559	1,897,493	1,875,657

(Continued)

TABLE 5 (Continued)

SALES TO ULTIMATE CONSUMERS BY CLASS
WISCONSIN ELECTRIC UTILITIES 1/
1985-1983

	1985	1984	1983
Private Electric Utilities			
Revenues			
Residential	$ 684,624,559	$ 679,751,666	$ 675,997,303
Commercial and Industrial	1,192,920,802	1,191,398,035	1,138,911,855
Rural	121,064,027	115,763,473	114,723,076
Public Street and Highway Lighting	26,472,653	23,355,153	25,408,512
Other Sales to Public Authorities	11,198,706	10,994,775	10,815,155
Interdepartmental Sales	1,823,899	1,617,007	1,401,595
Total Revenue from Ultimate Consumers	$2,038,104,646	$2,022,880,109	$1,967,257,496
Megawatt Hours Sold			
Residential	9,963,546	9,861,746	9,851,980
Commercial and Industrial	23,029,158	22,699,727	21,418,085
Rural	1,868,220	1,767,104	1,750,813
Public Street and Highway Lighting	377,054	298,709	330,705
Other Sales to Public Authorities	224,753	215,388	215,168
Interdepartmental Sales	34,132	28,385	26,815
Total Megawatt Hours Sold to Ultimate Consumers	35,496,863	34,871,059	33,593,566
Average Number of Customers 2/			
Residential	1,420,592	1,408,034	1,391,808
Commercial and Industrial	175,209	171,822	170,095
Rural	126,357	123,889	123,039
Public Street and Highway Lighting	3,697	3,060	3,161
Other Sales to Public Authorities	615	612	591
Interdepartmental Sales	8	8	8
Total Ultimate Consumers	1,726,478	1,707,425	1,688,702

(Continued)

TABLE 5 (Concluded)

SALES TO ULTIMATE CONSUMERS BY CLASS
WISCONSIN ELECTRIC UTILITIES 1/
1985-1983

Municipal Electric Utilities	1985	1984	1983
Revenues			
Residential	$ 59,370,385	$ 58,877,977	$ 58,331,118
Commercial and Industrial	130,263,752	125,507,232	118,695,730
Rural	12,236,426	12,031,013	11,546,167
Public Street and Highway Lighting	3,775,359	3,657,530	3,670,220
Other Sales to Public Authorities	1,428,343	1,577,527	1,643,607
Interdepartmental Sales	2,589,886	2,392,287	2,301,741
Total Revenue from Ultimate Consumers	$ 209,664,151	$ 204,043,566	$ 196,188,583
Megawatt Hours Sold			
Residential	1,136,650	1,131,594	1,123,249
Commercial and Industrial	2,646,855	2,566,097	2,382,656
Rural	221,400	214,671	210,541
Public Street and Highway Lighting	51,652	50,712	52,114
Other Sales to Public Authorities	24,980	30,931	29,406
Interdepartmental Sales	50,690	48,227	45,464
Total Megawatt Hours Sold to Ultimate Consumers	4,132,227	4,042,232	3,843,430
Average Number of Customers 2/			
Residential	149,286	147,632	145,404
Commercial and Industrial	24,385	24,300	24,459
Rural	16,882	16,547	16,594
Public Street and Highway Lighting	161	166	125
Other Sales to Public Authorities	266	276	272
Interdepartmental Sales	101	101	101
Total Ultimate Consumers	191,081	188,808	186,955

1/ Excluding out-of-state operations.
2/ Heating, cooking and yard lighting customers on separate rates are not included in customer data, as they would be duplications.

TABLE 6

COMPARATIVE STATEMENT OF OPERATION AND MAINTENANCE EXPENSES
WISCONSIN ELECTRIC UTILITIES 1/
1985-1983

	1985	1984	1983
All Electric Utilities			
Production Expense-Total Company			
Steam-Nuclear Fuel	$ 143,135,663	$ 149,698,097	$ 146,774,407
Steam-Fossil Fuel	640,082,791	635,789,974	618,751,856
Hydraulic	15,293,389	15,442,538	14,262,483
Int. Comb.-Recip. and Turbine	5,115,954	6,056,944	9,006,332
Purchases or Net Interchanges	360,325,071	371,915,736	338,993,718
Other Power Supply	1,599,173	1,969,399	11,000,875
Total Production Expense	$1,165,552,041	$1,180,872,688	$1,138,789,671
Amount Applicable to Out-of-State Sales	48,687,011	43,601,825	107,985,344
Amount Applicable to Wisconsin Sales	$1,116,865,030	$1,137,270,863	$1,030,804,327
Operation and Maintenance - Wisconsin Only			
Production	$1,116,865,030	$1,137,270,863	$1,030,804,327
Transmission 2/	19,122,712	23,108,828	20,215,170
Distribution 2/	129,100,783	126,059,634	113,091,682
Customer Accounts	56,771,080	50,281,915	44,651,604
Sales Promotion 3/	1,341,255	1,517,258	439,622
Customer Service	22,079,320	22,172,301	18,130,135
Administrative and General	151,606,298	146,946,687	142,579,525
Total	$1,496,886,478	$1,507,357,486	$1,369,912,065
Private Electric Utilities			
Production Expense - Total Company			
Steam-Nuclear Fuel	$ 143,135,663	$ 149,698,097	$ 146,774,407
Steam-Fossil Fuel	626,919,834	623,400,420	606,592,896
Hydraulic	14,828,695	15,069,846	13,943,584
Int. Comb.-Recip. and Turbine	4,417,471	5,339,486	8,409,695
Purchases or Net Interchanges	203,392,129	218,413,080	192,287,825
Other Power Supply	1,598,993	1,969,299	10,883,738
Total Production Expense	$ 994,292,785	$1,013,890,228	$ 978,892,145
Amount Applicable to Out-of-State Sales	48,687,011	43,601,825	107,985,344
Amount Applicable to Wisconsin Sales	$ 945,605,774	$ 970,288,403	$ 870,906,801
Operation and Maintenance - Wisconsin Only			
Production	$ 945,605,774	$ 970,288,403	$ 870,906,801
Transmission 2/	18,991,999	22,989,901	20,134,022
Distribution 2/	121,529,896	119,236,964	106,684,865
Customer Accounts	53,509,291	47,163,563	41,767,325
Sales Promotion	1,331,409	1,503,236	428,995
Customer Service	22,076,257	22,169,307	18,127,103
Administrative and General	142,561,662	138,760,020	134,907,767
Total	$1,305,606,288	$1,322,111,394	$1,192,956,878

TABLE 6 (Concluded)

COMPARATIVE STATEMENT OF OPERATION AND MAINTENANCE EXPENSE
WISCONSIN ELECTRIC UTILITIES 1/
1985-1983

Municipal Electric Utilities	1985	1984	1983
Production Expense			
Steam-Fossil Fuel	$ 13,162,957	$ 12,389,554	$ 12,158,960
Hydraulic	464,694	372,692	318,899
Int. Com.-Recip. and Turbine	698,483	717,458	596,637
Purchases or Net Interchanges	156,932,942	153,502,656	146,705,893
Other Power Supply	180	100	117,137
Total Production Expense	$ 171,259,256	$ 166,982,460	$ 159,897,526
Transmission 2/	130,713	118,927	81,148
Distribution 2/	7,570,887	6,822,670	6,406,817
Customer Accounts	3,261,789	3,118,352	2,884,279
Sales 3/	12,909	17,016	13,659
Administrative and General	9,044,636	8,186,667	7,671,758
Total	$191,280,190	$ 185,246,092	$ 176,955,187

1/ Out-of-state operations of Wisconsin Utilities are not included except in detail of production expenses, as indicated.
2/ Transmission and distribution expenses are combined in the Class D report forms. These utilities are assumed to have no transmission expense.
3/ Includes customer service expense for municipal utilities.

TABLE 7

SUMMARY OF MEGAWATT HOURS SOLD AND USED
WISCONSIN ELECTRIC UTILITIES
1985-1983

All Electric Utilities	1985	1984	1983
MWh Sold to Ultimate Customers (Wisconsin Only)	39,629,090	38,913,291	37,436,996
MWh Sold to Other Electric Utilities	4,759,561	4,914,830	4,693,755
MWh sold at State Line	125,953	254,224	49,937
MWh sold to Electric Coops.	358,479	345,673	343,075
Total MWh Sold in Wisconsin 1/	44,873,083	44,428,018	42,523,763
MWh Used by Utilities	138,345	126,769	115,073
Total MWh Sold & Used in Wisconsin 1/	45,011,428	44,554,787	42,638,836
MWh Sold Out of State			
Sales to Ultimate Consumers	581,313	561,018	519,817
Sales to Electric Utilities and Cooperatives	1,357,054	1,385,229	796,233
Total MWh Sold Out of State	1,938,367	1,946,247	1,316,050
MWh Used by Utilities Out of State	2,430	3,735	2,188
Total MWh Sold & Used Out of State	1,940,797	1,949,982	1,318,238
Total MWh Sold & Used	46,952,225	46,504,769	43,957,074
MWh Unaccounted for	3,060,538	2,993,866	3,134,758
Total MWh Generated and Purchased Purchased 1/	50,012,763	49,498,635	47,091,832

(Continued)

TABLE 7 (Continued)

SUMMARY OF MEGAWATT HOURS SOLD AND USED
WISCONSIN ELECTRIC UTILITIES
1985-1983

	1985	1984	1983
Private Electric Utilities			
MWh Sold to Ultimate Customers (Wisconsin Only)	35,496,863	34,871,059	33,593,566
MWh Sold to Other Electric Utilities	4,756,083	4,908,989	4,689,366
MWh Sold at State Line	125,953	254,224	49,937
MWh Sold to Electric Cooperatives	358,479	345,673	343,075
Total MWh Sold in Wisconsin 1/	40,737,378	40,379,945	38,675,944
MWh Used by Utilities	136,452	124,391	110,496
Total MWh Sold & Used in Wisconsin 1/	40,873,830	40,504,336	38,786,440
MWh Sold Out of State			
Sales to Ultimate Consumers	581,313	561,018	519,817
Sales to Electric Utilities & Cooperatives	1,357,054	1,385,229	796,233
Total MWh Sold Out of State	1,938,367	1,946,247	1,316,050
MWh Used by Utilities Out of State	2,430	3,735	2,188
Total MWh Sold & Used Out of State	1,940,797	1,949,982	1,318,238
Total MWh Sold and Used	42,814,627	42,454,318	40,104,678
MWh Unaccounted for	2,837,791	2,791,316	2,913,805
Total MWh Generated and Purchased 1/	45,652,418	45,245,634	43,018,483

(Continued)

TABLE 7 (Concluded)

SUMMARY OF MEGAWATT HOURS SOLD AND USED
WISCONSIN ELECTRIC UTILITIES
1985-1983

	1985	1984	1983
Municipal Electric Utilities			
MWh Sold to Ultimate Customers (~~Wisconsin~~ Only)	4,132,227	4,042,232	3,843,430
MWh Sold to Other Electric Utilities	3,478	5,841	4,389
MWh Sold to Electric Coops.	0	0	0
Total MWh Sold in Wisconsin 1/	4,135,705	4,048,073	3,847,819
MWh Used by Utilities	1,893	2,378	4,577
Total MWh Sold or Used in Wisconsin 1/	4,137,598	4,050,451	3,852,396
MWh Sold Out of State			
Sales to Ultimate Consumers	0	0	0
Sales to Electric Utilities & Cooperatives	0	0	0
Total MWh Sold Out of State	0	0	0
MWh Used by Utilities Out of State	0	0	0
Total MWh Sold and Used Out of State	0	0	0
Total MWh Sold and Used	4,137,598	4,050,451	3,852,396
MWh Unaccounted for	222,747	202,550	220,953
Total MWh Generated and Purchased 1/	4,360,345	4,253,001	4,073,349

1/ To avoid double counting subtract "MWh Sold to Other Utilities".

TABLE 8

MEGAWATT HOURS GENERATED AND PURCHASED
WISCONSIN ELECTRIC UTILITIES
1985-1983

All Electric Utilities	1985	1984	1983
Net Generation in Wisconsin			
Steam - Nuclear Fuel	10,654,941	10,424,529	9,099,277
Steam - Fossil Fuel	25,068,520	24,676,118	23,808,376
Hydraulic	1,949,931	1,785,813	1,949,516
Internal Combustion - Recip.	4,962	3,325	2,569
Internal Combustion - Turbine	15,212	26,347	69,690
Total	37,693,566	36,916,132	34,929,428
Net Generation Outside Wisconsin by Wisconsin Companies			
Hydraulic	543,610	466,772	561,189
Internal Combustion - Recip.	0	0	(2)
Total	543,610	466,772	561,187
Total Megawatt Hours Generated			
Steam - Nuclear Fuel	10,654,941	10,424,529	9,099,277
Steam - Fossil Fuel	25,068,520	24,676,118	23,808,376
Hydraulic	2,493,541	2,252,585	2,510,705
Internal Combustion - Recip.	4,962	3,325	2,567
Internal Combustion - Turbine	15,212	26,347	69,690
Total	38,237,176	37,382,904	35,490,615
Megawatt Hours Purchased Plus Net Interchanges			
From Wisconsin Electric Utils. 2/	9,389,128	9,234,694	4,512,245
From Out-of-State Elec. Utils. 3/	(2,127,439)	1,011,328	5,293,234
From Electric Cooperatives	1,502,262	1,611,536	1,508,961
From Other Non-Utility Companies	3,011,636	258,173	286,777
Total	11,775,587	12,115,731	11,601,217
Total Megawatt Hours Generated and Purchased 2/	50,012,763	49,498,635	47,091,832
Tons of Coal Used in Steam Plants	13,797,648	13,333,981	12,881,312
Gallons of Fuel Oil Used in Steam Plants	7,912,464	6,007,386	6,864,102
Therms of Natural Gas Used in Steam Plants	11,373,778	14,244,740	26,949,298
Tons of Wood in Steam Plants	153,353	130,617	98,206
Gallons of Fuel Oil Used in Internal Combustion-Recip. Plants	207,356	54,890	151,398
Therms of Natural Gas Used in Internal Combustion-Recip. Plants	277,248	23,600	0
Gallons of Fuel Oil Used in Internal Combustion-Turbine Plts.	979,440	819,294	2,842,686
Therms of Natural Gas Used in Internal Combustion-Turbine Plts.	2,434,179	4,457,177	7,427,375

TABLE 8 (Continued)

MEGAWATT HOURS GENERATED AND PURCHASED
WISCONSIN ELECTRIC UTILITIES
1985-1983

Private Electric Utilities 1/	1985	1984	1983
Net Generation in Wisconsin			
Steam - Nuclear Fuel	10,654,941	10,424,529	9,099,277
Steam - Fossil Fuel	24,829,399	24,439,199	23,589,161
Hydraulic	1,832,597	1,657,149	1,820,468
Internal Combustion - Recip.	564	181	690
Internal Combustion - Turbine	15,057	25,836	69,249
Total	37,332,558	36,546,894	34,578,845
Net Generation Outside Wisconsin by Wisconsin Companies			
Hydraulic	543,610	466,772	561,189
Internal Combustion - Recip.	0	0	(2)
Total	543,610	466,772	561,187
Total Megawatt Hours Generated			
Steam - Nuclear Fuel	10,654,941	10,424,529	9,099,277
Steam - Fossil Fuel	24,829,399	24,439,199	23,589,161
Hydraulic	2,376,207	2,123,921	2,381,657
Internal Combustion - Recip.	564	181	688
Internal Combustion - Turbine	15,057	25,836	69,249
Total	37,876,168	37,013,666	35,140,032
Megawatt Hours Purchased Plus Net Interchanges			
From Wisconsin Electric Utilities 2/	5,515,582	5,473,259	947,745
From Out-of-State Elec. Utils. 3/	(2,127,439)	1,011,328	5,293,234
From Electric Cooperatives	1,379,046	1,492,149	1,354,290
From Other Non-Utility Companies	3,009,061	255,232	283,182
Total	7,776,250	8,231,968	7,878,451
Total Megawatt Hours Generated and Purchased 2/	45,652,418	45,245,634	43,018,483
Tons of Coal Used in Steam Plants	13,641,631	13,158,458	12,725,472
Gallons of Fuel Oil Used in Steam Plants	7,912,464	6,007,386	6,864,102
Therms of Natural Gas Used in Steam Plants	11,373,778	14,244,740	26,949,298
Tons of Wood in Steam Plants	153,353	130,617	98,206
Gallons of Fuel Oil Used in Internal Combustion-Recip. Plants	49,258	20,596	21,285
Therms of Natural Gas Used in Internal Combustion-Recip. Plants	0	0	0
Gallons of Fuel Oil Used in Internal Combustion-Turbine Plts.	979,440	819,294	2,842,686
Therms of Natural Gas Used in Internal Combustion-Turbine Plts.	2,399,079	4,457,177	7,340,075

TABLE 8 (Concluded)

MEGAWATT HOURS GENERATED AND PURCHASED
WISCONSIN ELECTRIC UTILITIES
1985-1983

Municipal Electric Utilities	1985	1984	1983
Net Generation in Wisconsin			
Steam - Fossil Fuel	239,121	236,919	219,215
Hydraulic	117,334	128,664	129,048
Internal Combustion - Recip.	4,398	3,144	1,879
Internal Combustion - Turbine	155	511	441
Total	361,008	369,238	350,583
Megawatt Hours Purchased plus Net Interchanges			
From Wisconsin Electric Utils.2/	3,873,546	3,761,435	3,564,500
From Electric Cooperatives	123,216	119,387	154,671
From Other Non-Utility Companies	2,575	2,941	3,595
Total	3,999,337	3,883,763	3,722,766
Total Megawatt Hours Generated and Purchased 2/	4,360,345	4,253,001	4,073,349
Tons of Coal Used in Steam Plants	156,017	175,523	155,840
Gallons of Fuel Oil Used in Steam Plants	0	0	0
Therms of Natural Gas Used in Steam Plants	0	0	0
Gallons of Fuel Oil Used in Internal Combustion-Recip. Plants	158,098	34,294	130,113
Therms of Natural Gas Used in Internal Combustion-Recip. Plants	277,248	23,600	0
Gallons of Fuel Oil Used in Internal Combustion-Turbine Plants	0	0	0
Therms of Natural Gas Used in Internal Combustion-Turbine Plants	35,100	0	87,300

1/ Experimental generation using windmills and photo voltaics is being done by some utilities. These plants will be included in the Bulletin if and when they produce a significant amount of commercial power.

2/ Energy included in "Purchased from Wisconsin Electric Utilities" is also included in the generation figures. Therefore, to avoid double counting, you should subtract "Purchased from Wisconsin Electric Utilities" from the "Total Megawatt Hours Generated and Purchased" figure.

3/ Includes purchases delivered in Wisconsin or at state line.

TABLE 9

GENERATING PLANT AND TRANSMISSION LINE DATA
WISCONSIN ELECTRIC UTILITIES
1985-1983

Capacity of Generators in Kilowatts	1985	1984	1983
All Plants in Wisconsin			
Steam - Nuclear Fuel	1,540,682	1,540,682	1,540,682
Steam - Fossil Fuel	7,152,528	6,235,268	6,235,266
Hydraulic	355,030	355,020	352,940
Internal Combustion - Recip.	111,000	103,050	100,456
Internal Combustion - Turbine	1,285,950	1,285,950	1,285,950
Total	10,445,190	9,520,345	9,515,294
Private Utility Plants in Wisconsin			
Steam - Nuclear Fuel	1,540,682	1,540,682	1,540,682
Steam - Fossil Fuel	7,003,848	6,083,838	6,083,836
Hydraulic	336,145	336,145	334,065
Internal Combustion-Recip.	27,331	27,231	27,356
Internal Combustion-Turbine	1,265,950	1,265,950	1,265,950
Total	10,173,956	9,253,846	9,251,889
Municipal Utility Plants in Wisconsin			
Steam - Fossil Fuel	148,680	151,430	151,430
Hydraulic	18,885	18,875	18,875
Internal Combustion-Recip.	83,669	73,169	73,100
Internal Combustion-Turbine	20,000	20,000	20,000
Total	271,234	263,474	263,405
Plants Located Outside Wisconsin Operated by Wisconsin Utils. 1/			
Hydraulic	99,990	99,990	99,990
Internal Combustion-Recip.	0	0	5,042
Total	99,990	99,990	105,032
Total Plants Operated by Wisconsin Utilities			
Steam - Nuclear Fuel	1,540,682	1,540,682	1,540,682
Steam - Fossil Fuel	7,152,528	6,235,268	6,235,266
Hydraulic	455,020	455,010	452,930
Internal Combustion-Recip.	116,042	100,400	105,498
Internal Combustion-Turbine	1,285,950	1,285,950	1,285,950
Total	10,550,222	9,617,310	9,620,326
Miles of Transmission Pole or Tower (Including Out-of-State)			
Over 100,000 Volts	4,393	4,399	4,407
Less than 100,000 Volts	4,838	4,820	4,837

1/ Out-of-State plants are all owned by private electric utilities.

TABLE 10

CONDENSED SUMMARY OF 1985 OPERATIONS
INDIVIDUAL PRIVATE ELECTRIC UTILITIES 1/

Utilities	Operating Revenues 2/	Operation and Maintenance	Depreciation and Amortization	Taxes Other Than Income Taxes	Income Taxes	Net Operating Revenue	Total MWh Sold 2/	Average Number of Consumers 3/	MWh Generated 4/	MWh Purchased 4/
Class A, B, and C										
Consolidated Water Power Co.	$ 19,924,478	$ 20,344,969	$ 472,356	$ 87,438	$ (542,556)	$ (437,729)	610,590	987	141,341	485,008
Dahlberg Light & Power Co.	4,390,956	3,343,488	332,280	95,531	185,518	434,139	54,959	5,389	3,813	58,045
Lake Superior District Power Co.	35,529,816	22,893,886	3,030,466	1,028,241	3,684,840	4,892,383	659,430	31,959	200,790	665,283
Madison Gas and Electric Co.	122,802,425	67,155,631	15,860,295	3,370,293	12,955,365	23,460,841	1,999,967	102,367	1,950,727	158,384
North Central Power Co.	1,222,479	750,742	100,895	40,460	91,860	238,522	19,844	3,063	14,672	8,019
Northern States Power Co.	175,453,584	121,981,819	16,838,583	4,317,441	13,976,910	18,338,831	3,597,840	145,126	1,002,260	2,987,595
Northwestern Wisconsin Electric Co.	6,114,941	4,429,091	603,938	126,856	180,221	774,835	100,059	9,059	15,267	97,475
Pioneer Power & Light Co.	991,514	810,885	49,151	26,548	20,694	84,236	15,766	1,351	0	16,692
Superior Water, Light & Power Co.	26,729,515	22,899,693	733,354	566,255	883,574	1,646,639	510,584	12,268	0	522,235
Wisconsin Electric Power Co.	1,059,373,276	590,683,797	124,601,240	30,635,078	118,912,651	194,540,510	18,275,906	810,954	18,874,152	1,100,440
Westfield Milling & Electric Light Co.	471,176	407,075	21,894	6,803	3,505	31,899	6,994	561	0	7,503
Wisconsin Power and Light Co.	402,325,006	255,638,779	57,275,806	12,279,942	31,973,646	45,156,833	7,623,187	312,000	8,343,376	984,322
Wisconsin Public Service Corp.	394,001,273	194,266,433	44,449,152	11,048,093	33,002,907	111,234,688	7,263,252	291,487	7,329,770	685,249
Grand Total	$2,249,330,439	$1,305,606,288	$264,369,410	$63,628,979	$215,329,135	$400,396,627	40,737,378	1,726,571	37,876,168	7,776,250

1/ Data included in this table includes Wisconsin operations only, except where noted.
2/ Includes Interdepartmental Sales and Sales for Resale.
3/ Excluding Off-Peak Water Heating and Area Lighting Customers.
4/ Total company operations are represented in data on generation and purchases. Companies operating outside Wisconsin are: Lake Superior District Power Co., Northwestern Wisconsin Electric Co., Wisconsin Electric Power Co., and Wisconsin Public Service Corp. Where power is interchanged, the net figure is added to MWh purchased.

TABLE 11

CONDENSED SUMMARY OF 1985 OPERATIONS
INDIVIDUAL MUNICIPAL ELECTRIC UTILITIES 1/

Utilities	Operating Revenues	Operation and Maintenance	Depreciation and Amortization	Taxes Other Than Income Taxes	Net Operating Revenue	Total MWh Sold 2/	Average Number of Customers 3/	MWh Generated 4/	MWh Purchased 4/
Class A, B, and C									
Algoma	$ 1,728,786	$ 1,605,187	$ 35,955	$ 31,342	$ 56,302	30,559	1,797	0	31,345
Arcadia	1,353,912	1,149,286	91,771	60,172	52,683	30,740	1,134	250	31,444
Bangor	1,423,058	1,214,367	59,125	53,747	95,819	27,358	1,256	0	29,650
Barron	1,366,545	1,167,014	98,567	54,617	46,347	27,835	1,422	193	29,492
Black Earth	646,014	505,716	26,054	23,482	90,762	10,166	871	0	10,598
Black River Falls	1,701,157	1,518,787	73,925	76,035	32,410	36,708	2,295	4,533	34,185
Bloomer	1,634,051	1,480,809	36,463	26,456	90,323	35,769	1,572	0	36,396
Boscobel	1,408,110	1,174,518	61,289	42,806	129,497	24,521	1,573	0	25,842
Brodhead	1,221,488	1,115,178	43,280	31,612	31,418	23,194	1,590	0	24,506
Cadott	464,828	422,707	21,159	10,441	10,521	9,126	610	0	9,809
Cashton	252,985	221,737	20,536	12,373	(1,661)	5,249	440	(4)	5,539
Cedarburg	5,011,931	4,378,886	168,200	130,486	334,359	86,439	4,503	0	90,730
Clintonville	2,579,598	2,412,194	73,893	65,410	28,101	43,939	2,432	0	46,720
Columbus	1,917,906	1,736,164	76,913	53,626	51,203	37,251	2,104	0	39,437
Cornell	560,203	539,691	24,497	20,751	(24,736)	10,737	772	0	11,720
Cuba City	652,850	573,856	35,130	14,541	29,323	12,243	887	0	13,238
Cumberland	1,501,079	1,018,373	176,203	111,000	195,503	22,728	1,121	242	24,378
Deerfield	227,557	205,854	8,429	7,985	5,289	3,650	619	0	3,838
Eagle River	1,184,340	1,093,328	35,901	22,749	32,362	20,113	1,060	0	20,959
Elkhorn	3,149,355	2,717,442	141,655	87,973	202,285	52,579	2,437	0	55,353
Elroy	708,918	629,100	49,213	25,134	5,471	15,215	781	(150)	16,851
Evansville	1,924,709	1,795,792	62,253	52,689	13,975	36,983	2,168	0	39,427
Fennimore	989,756	899,375	53,823	30,644	5,914	19,383	1,169	100	20,347
Florence	452,083	399,554	27,730	18,614	6,185	7,530	793	0	8,197
Gresham	455,296	328,034	45,140	29,245	52,877	9,225	845	4,935	4,741
Hartford	3,474,335	3,106,505	75,847	77,175	214,808	57,664	3,049	0	61,805
Hazel Green	343,908	317,003	14,046	8,361	4,498	5,798	524	0	5,901
Hustisford	767,887	643,382	51,051	35,824	37,630	12,976	1,012	0	13,858
Jefferson	4,894,544	4,635,129	74,076	84,995	100,344	92,381	2,871	0	102,540
Juneau	1,208,291	1,081,311	51,681	37,211	38,088	23,150	817	0	23,913

TABLE 11 (Continued)

CONDENSED SUMMARY OF 1985 OPERATIONS
INDIVIDUAL MUNICIPAL ELECTRIC UTILITIES 1/

Utilities	Operating Revenues	Operation and Maintenance	Depreciation and Amortization	Taxes Other Than Income Taxes	Net Operating Revenue	Total MWh Sold 2/	Average Number of Customers 3/	MWh Generated 4/	MWh Purchased 4/
Kaukauna	$ 18,196,536	$ 16,398,715	$ 640,989	$ 454,368	$ 702,464	487,512	8,812	105,661	404,293
Kiel	2,165,557	1,987,329	63,245	47,644	67,339	40,724	1,584	0	43,134
LaFarge	307,209	273,026	14,323	9,021	10,839	4,556	495	0	5,061
Lake Mills	2,448,780	2,229,091	58,986	49,548	111,155	43,941	2,151	0	46,313
Lodi	732,269	636,752	31,971	20,610	42,936	12,747	996	0	13,747
Manitowoc	18,928,702	17,423,126	718,612	700,668	86,296	341,008	14,568	103,123	254,362
Marshfield	13,245,083	11,594,048	499,022	388,749	763,264	236,330	9,916	63,412	181,655
Mazomanie	430,907	351,013	20,176	12,753	46,965	7,504	655	0	7,793
Medford	3,052,220	2,768,467	92,093	60,959	130,701	67,113	2,551	0	70,091
Menasha	7,199,700	5,946,217	439,869	362,378	451,236	122,752	6,455	49,347	81,361
Mount Horeb	1,666,298	1,437,120	94,093	57,842	77,243	31,397	1,998	0	32,868
Muscoda	737,988	735,429	39,573	27,634	(64,648)	12,706	875	261	14,192
New Glarus	713,022	653,302	17,244	10,980	31,496	14,144	895	0	15,098
New Holstein	2,778,927	2,594,140	85,046	57,330	42,411	47,326	2,128	0	49,620
New Lisbon	612,735	483,379	71,383	38,729	19,244	11,721	694	94	12,298
New London	6,016,858	5,687,628	111,862	143,651	73,717	126,609	3,014	0	129,872
New Richmond	1,928,077	1,747,423	62,759	44,327	73,568	31,612	2,222	0	44,018
Oconomowoc	6,269,779	5,448,348	266,937	190,009	364,485	114,486	5,462	0	118,017
Oconto Falls	1,033,416	979,218	32,325	22,254	(381)	18,970	1,211	0	19,897
Pardeeville	656,436	625,288	20,295	13,865	(13,012)	13,228	924	58	14,004
Plymouth	5,950,542	5,214,313	243,937	199,555	292,737	113,527	5,324	0	122,448
Prairie Du Sac	822,187	728,016	35,923	19,922	38,326	14,561	1,033	0	15,527
Princeton	585,661	494,357	24,092	15,591	51,621	9,577	799	0	10,246
Reedsburg	3,973,164	3,796,961	78,521	57,517	40,165	86,907	2,688	0	91,098
Rice Lake	4,546,606	3,924,986	175,208	132,276	314,056	97,260	4,234	0	101,110
Richland Center	3,715,157	3,533,664	182,498	141,332	(142,337)	62,961	2,635	26,465	39,457
River Falls	3,489,699	2,888,452	231,486	145,055	224,706	68,618	3,446	2,361	65,922
Sauk City	1,237,920	1,159,422	42,577	27,476	8,445	22,947	1,333	0	24,790
Shawano	6,712,737	6,077,074	190,270	190,809	254,584	137,179	4,344	0	140,958
Sheboygan Falls	4,932,992	4,550,739	150,597	79,434	152,222	110,439	2,718	0	114,838

TABLE 11 (Concluded)

CONDENSED SUMMARY OF 1984 OPERATIONS
INDIVIDUAL MUNICIPAL ELECTRIC UTILITIES 1/

Utilities	Operating Revenues	Operation and Maintenance	Depreciation and Amortization	Taxes Other Than Income Taxes	Net Operating Revenue	Total MWh Sold 2/	Average Number of Customers 3/	MWh Generated 4/	MWh Purchased 4/
Shullsburg	$ 465,552	$ 413,116	$ 25,643	$ 14,410	$ 12,383	8,240	701	0	8,820
Slinger	690,331	617,661	25,259	13,233	34,178	11,360	779	0	12,612
Spooner	1,016,175	930,888	27,294	21,985	36,008	20,863	1,419	0	22,394
Stoughton	4,051,192	3,641,209	149,177	108,799	152,007	77,080	5,394	0	82,501
Stratford	489,509	473,635	14,872	6,530	(5,328)	7,931	667	0	8,506
Sturgeon Bay	6,946,093	5,774,876	395,756	217,381	558,080	112,588	6,270	0	117,936
Sun Prairie	4,370,938	3,861,044	173,013	125,913	210,968	88,535	5,378	0	93,510
Trempealeau	379,570	339,947	13,373	9,946	16,304	7,351	721	0	8,642
Two Rivers	3,862,232	3,562,286	135,323	98,030	66,593	66,893	5,609	0	71,182
Waterloo	1,927,741	1,835,756	36,000	30,203	25,782	38,179	1,290	0	39,830
Waunakee	1,780,985	1,556,491	73,075	36,984	114,435	32,733	1,873	0	34,796
Waupun	2,810,224	2,641,045	75,870	57,172	36,137	57,124	3,284	0	60,056
Westby	713,715	646,170	29,422	18,321	19,802	14,805	893	0	15,662
Whitehall	909,795	829,063	40,267	24,612	15,853	19,010	838	0	20,933
Wisconsin Dells	1,546,885	1,454,537	71,319	42,925	(21,896)	29,554	1,604	0	32,295
Wisconsin Rapids	9,616,361	8,571,389	356,287	304,074	384,611	167,118	10,540	0	175,605
Wonewoc	256,183	250,672	9,098	3,610	(7,197)	4,640	444	0	5,547
Subtotal	$ 212,126,125	$ 189,853,107	$ 8,200,645	$ 6,193,910	$ 7,878,463	4,105,777	188,388	360,881	3,967,664
Class D									
7 Utilities	1,579865	1,427,083	84,801	43,539	24,442	29,928	2,701	126	31,673
Grand Total	$ 213,705,990	$ 191,280,190	$ 8,285,446	$ 6,237,449	$ 7,902,905	4,135,705	191,089	361,007	3,999,337

1/ Data included in this table includes Wisconsin operations only, except where noted.
2/ Includes Interdepartmental Sales and Sales for Resale.
3/ Excluding Off-Peak Water Heating and Area Lighting Customers.
4/ Total company operations are represented in data on generation and purchases. Companies operating outside Wisconsin are: Lake Superior District Power Co., Northwestern Wisconsin Electric Co., Wisconsin Electric Power Co., and Wisconsin Public Service Corporation. Where power is interchanged, the net figure is added to MWh purchased.

GAS UTILITY SUMMARY

Comparative statistics of the gas utility industry in Wisconsin for the three year period 1985-1983 are presented in this section. The following tables and charts deal with gas utility operations:

Table 12 - Comparative Statement of Revenues and Expenses, 1985 -1983.
Table 13 - Sales to Ultimate Consumers by Classes, 1985 -1983.
Table 14 - Operating and Plant Statistics, 1985 -1983.
Table 15 - Condensed Summary of 1985 Operations - Individual Utilities

Chart 16 - Comparison of Revenues and Expenses, Wisconsin Gas Utilities, 1976 -1985.
Chart 17 - Residential Gas Spaceheating Customers Average Annual Use - 1976-1985.
Chart 18 - Residential Gas Spaceheating Customers Revenue per Therm - 1976-1985.
Chart 19 - Residential Gas Spaceheating Customers Average Annual Bill - 1976-1985.
Chart 20 - Revenue of Individual Gas Utilities, Percent of Total Sales to Ultimate Consumers, 1985.

Gas Utility Revenues and Expenses

Table 12 and Chart 16 show that gas utility revenues in 1985 were up about 0.89% from the previous year. Expenses were up 0.68% during the same period. Therms sold to ultimate consumers increased 0.74% and also the number of ultimate (retail) consumers increased 1.45%.

Sales to Ultimate Consumers

Table 13 summarizes sales to ultimate consumers. Percentage changes in 1985 by principle classes of service are given below:

	% Change From 1984 to 1985		
	Revenues	Therms Sold	Number of Customers
Residential - General	(10.21)%	(10.60)%	(5.07)%
Residential - Space Heating	2.78	3.77	2.01
Commercial and Industrial - Firm	(5.83)	(5.48)	(3.65)
Commercial and Industrial - Interr.	(5.67)	(3.47)	0.42
Commercial and Industrial - Sp. Htg.	5.46	5.99	3.35
Total Sales to Ultimate Consumers	0.17 %	0.74 %	1.45 %

The number of residential space heating customers rose 2.01% during 1985. Since many of these customers formerly took service as residential general customers, a decline occurred in the number served in that classification. Commercial and industrial firm customers declined. Overall the number of commercial and industrial customers increased by 2.63%.

CHART 16

WISCONSIN GAS UTILITIES REVENUES AND EXPENSES

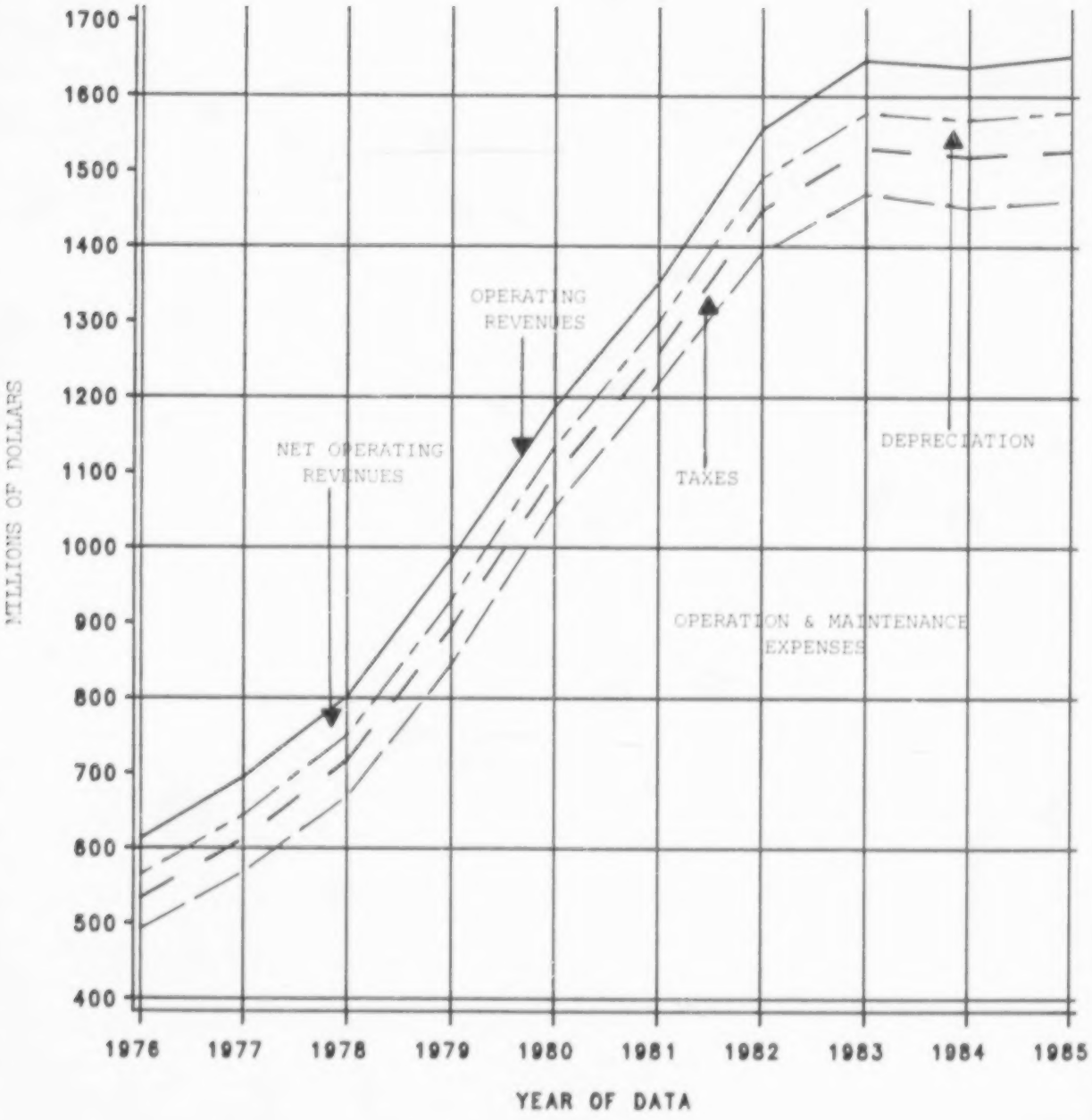


CHART 17

AVERAGE ANNUAL USE
RESIDENTIAL GAS SPACEHEATING CUSTOMERS

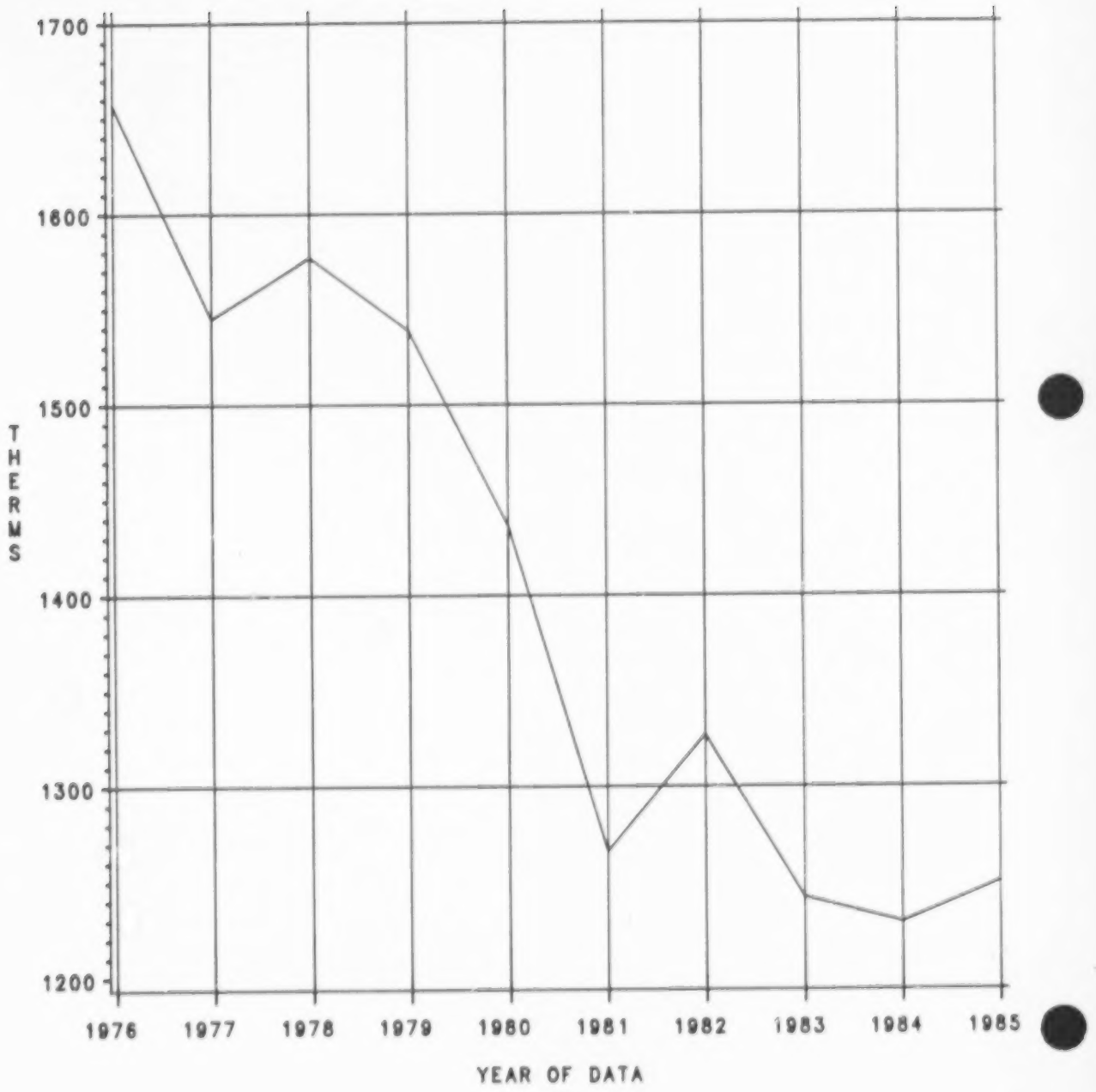


CHART 18

REVENUE PER THERM

RESIDENTIAL GAS SPACEHEATING CUSTOMERS

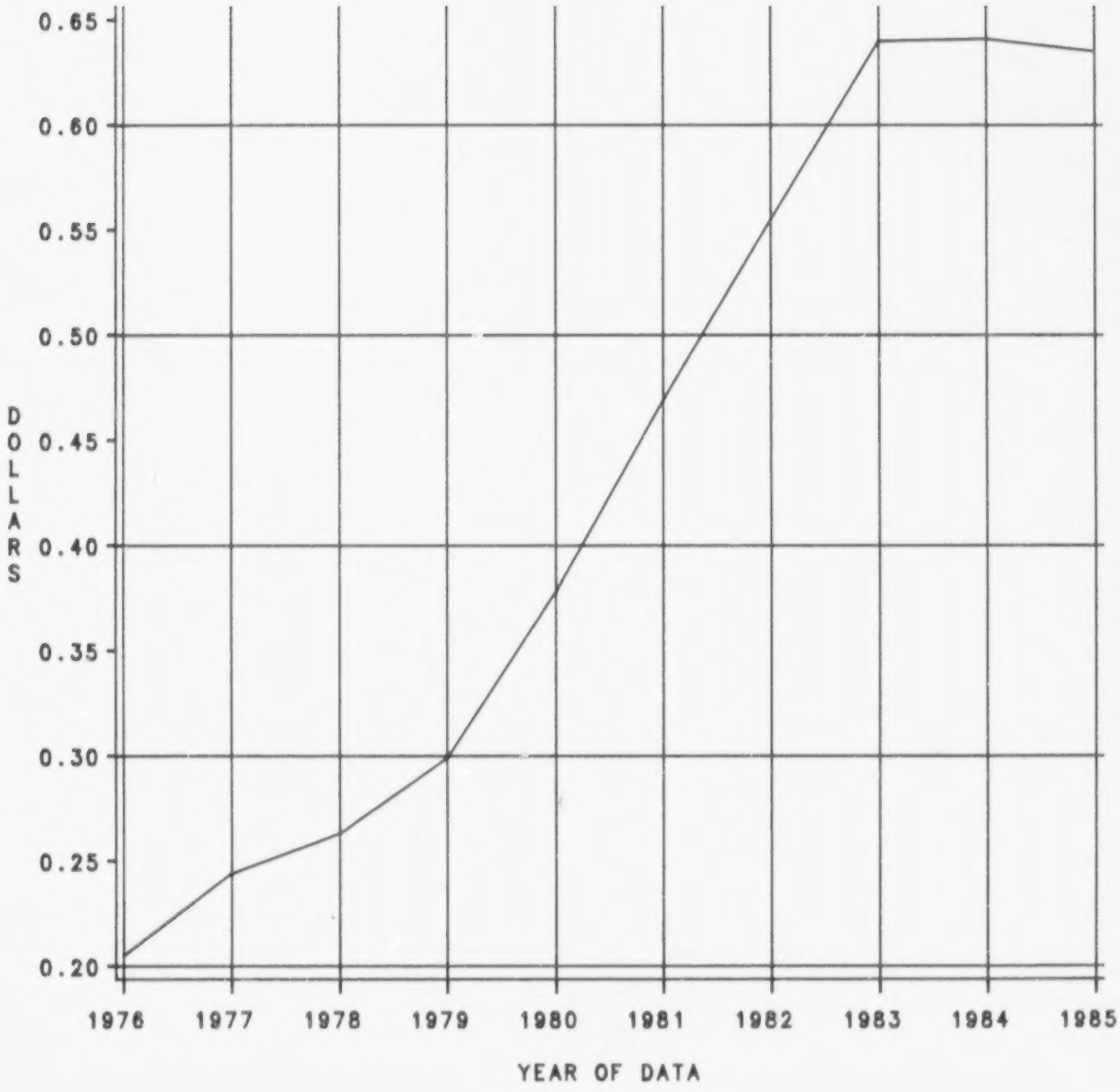


CHART 19

AVERAGE ANNUAL BILL

RESIDENTIAL GAS SPACEHEATING CUSTOMERS

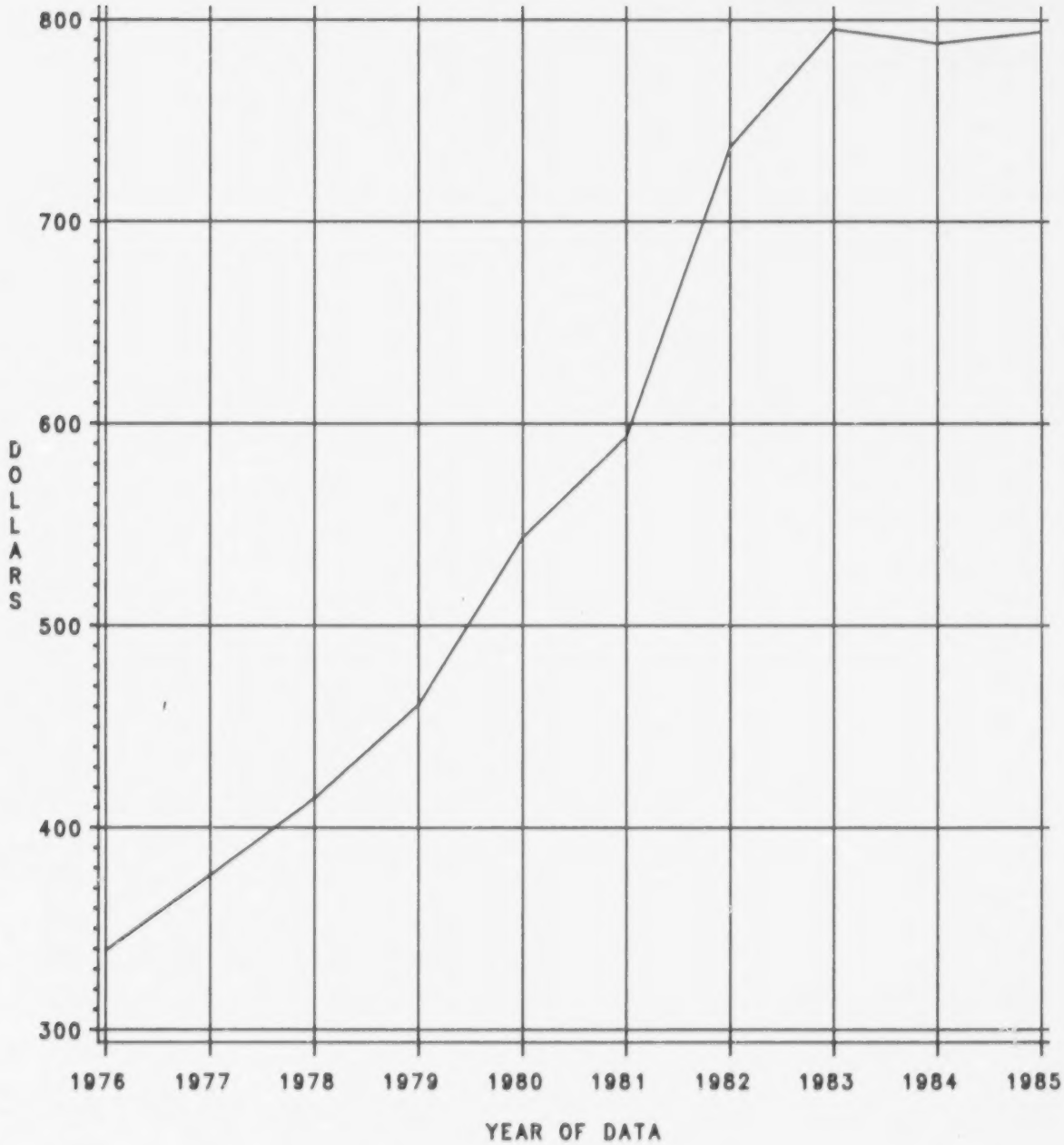
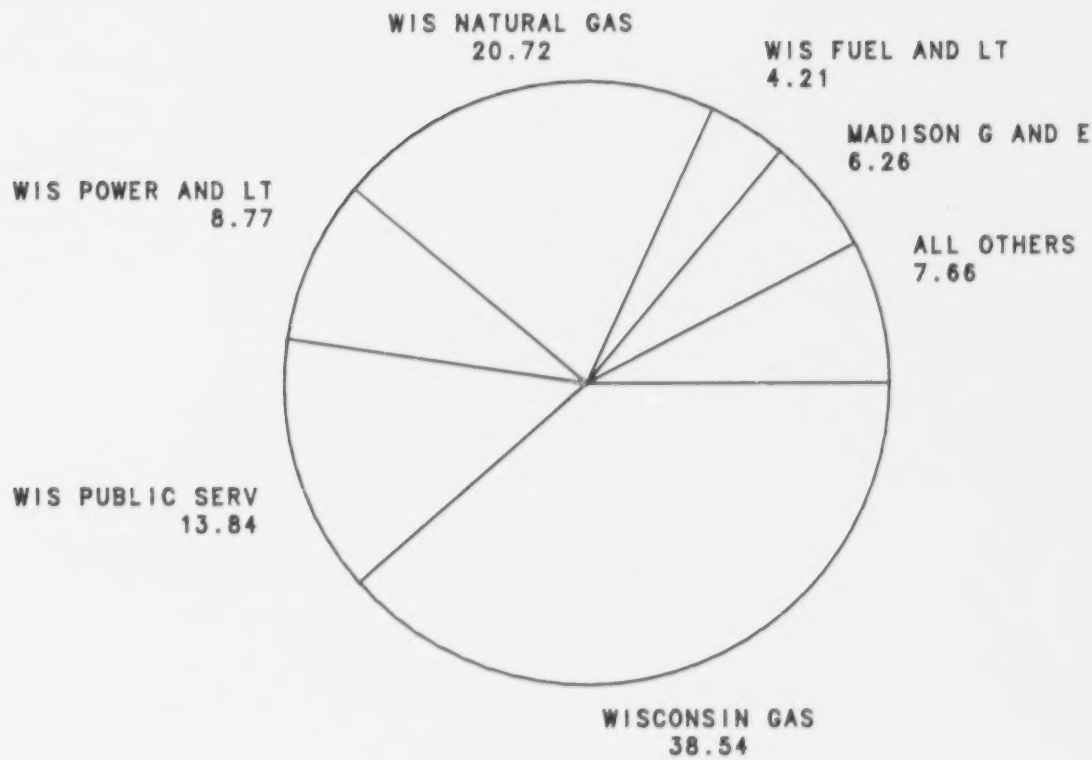


CHART 20

REVENUES OF WISCONSIN GAS UTILITIES
IN PERCENT OF TOTAL SALES TO ULTIMATE CONSUMERS
1985

SUM OF PERCENT BY UTILITY



Revenue and Consumption Ratios

The following table shows average revenue per therm, therms sold per customer and revenue per customer for each of the principle classes of service.

	1985	1984	1983
Revenue Per Therm (Cents)			
Residential - General	74.9	74.6	73.4
Residential - Space Heating	63.5	64.1	64.0
Commercial and Industrial - Firm	50.2	50.4	52.1
Commercial and Industrial - Interruptible	40.4	41.4	42.5
Commercial and Industrial - Space Heating	53.0	53.3	55.2
Therms Per Customer			
Residential - General	311	330	338
Residential - Space Heating	1,250	1,229	1,242
Commercial and Industrial - Firm	41,035	41,828	42,970
Commercial and Industrial - Interruptible	442,442	460,239	439,740
Commercial and Industrial - Space Heating	7,712	7,519	7,503
Revenue Per Customer			
Residential - General	$ 233	$ 247	$ 248
Residential - Space Heating	794	788	795
Commercial and Industrial - Firm	20,605	21,082	22,372
Commercial and Industrial - Interruptible	178,808	190,349	186,752
Commercial and Industrial - Space Heating	4,091	4,009	4,142

Revenue per therm increased for residential general customer classification in 1985. There was a decrease for all other classifications in 1985. Therms sold per customer decreased for all consumer classifications except space heating classifications. Revenue per customers decreased for all classes of service except space heating classifications. Charts 17, 18 and 19 presents a comparison of average residential spaceheating bills and consumption over a 9-year period.

Gas Utility Plant Statistics

Table 14 supplies a summary of operating and plant statistics of the gas utility industry in Wisconsin. Over 99.9% of the 3,043 million therms delivered to mains in 1985 was natural gas. Almost 19,898 miles of main were in service at the close of 1985, exclusive of that owned by the pipeline companies. This presents a 1.34% increase over a year earlier.

Data on Individual Utilities

Individual company statistics for 1985 are presented in Table 15. Chart 20 shows a breakdown by company of total sales to ultimate consumers. The Wisconsin Gas Company accounted for 38.5% of total sales revenue from ultimate consumers and the five largest utilities made up 88.1% of the total.

TABLE 12

COMPARATIVE STATEMENT OF REVENUES AND EXPENSES
WISCONSIN GAS UTILITIES 1/
1985-1983

	1985	1984	1983
Operating Revenues			
Sales to Ultimate Consumers	$ 1,634,437,095	$ 1,631,649,910	$ 1,633,351,810
Sales to Other Gas Utilities	0	0	5,356,022
Total Sales of Gas	$ 1,634,437,095	$ 1,631,649,910	$ 1,638,707,832
Other Operating Revenues	18,954,736	7,196,332	9,363,700
Total Operating Revenues	$ 1,653,391,831	$ 1,638,846,242	$ 1,648,071,532
Operating Expenses			
Production			
Other Gas Expenses	$ 339,477	$ 297,991	$ 260,412
Purchased Gas - Natural	1,259,750,117	1,269,065,441	1,303,325,560
Storage	697,277	857,918	633,348
Total Production and Expense	$ 1,260,786,871	$ 1,270,221,350	$ 1,304,219,320
Transmission and Distribution	58,445,191	56,941,492	52,980,267
Customer Accounts	51,772,557	44,205,162	38,734,046
Customer Services	25,373,056	18,034,844	17,786,358
Sales Promotion	3,761,945	2,623,394	1,189,458
Administrative and General	62,916,516	61,042,629	56,682,638
Total Operation and Maint.	$ 1,463,056,136	$ 1,453,068,871	$ 1,471,592,087
Depreciation 2/	53,364,992	50,597,059	48,573,513
Taxes Other than Income Taxes	16,830,195	23,054,541	20,395,303
Income Taxes	47,200,470	43,061,346	38,438,222
Total Operating Expenses	$ 1,580,451,793	$ 1,569,781,817	$ 1,578,999,125
Net Operating Revenues	$ 72,940,038	$ 69,064,425	$ 69,072,407

1/ Excluding out-of-state operations except where noted.
2/ Including amortization of plant acquisition adjustments, conversion costs, and other utility plant not subject to charges for depreciation.

TABLE 13

SALES TO ULTIMATE CUSTOMERS BY CLASSES
WISCONSIN GAS UTILITIES 1/
1985-1983

	1985	1984	1983
Revenue from Gas Sold to Ultimate Consumers			
Residential - General	$ 21,084,868	$ 23,482,982	$ 24,641,061
Residential - Space Heating	730,859,120	711,089,269	704,471,665
Commercial and Industrial Firm	177,180,289	188,152,967	202,533,251
Commercial and Industrial Interruptible	344,563,344	365,279,236	353,708,472
Commercial and Industrial Space Heating	355,805,111	337,384,982	340,048,112
Interdepartmental	4,944,363	6,260,474	7,949,249
Total	$ 1,634,437,095	$ 1,631,649,910	$ 1,633,351,810
Therms of Gas Sold to Ultimate Consumers			
Residential - General 2/	28,137,189	31,474,544	33,554,400
Residential - Space Heating	1,150,580,797	1,108,761,854	1,099,887,237
Commercial and Industrial Firm	352,858,584	373,312,147	389,005,947
Commercial and Industrial Interruptible	852,585,986	883,198,540	832,867,023
Commercial and Industrial Space Heating	670,768,052	632,837,389	615,988,852
Interdepartmental	11,775,371	14,734,237	18,225,228
Total	3,066,705,979	3,044,318,711	2,989,528,687
Average Number of Customers			
Residential - General 2/	90,433	95,264	99,238
Residential - Space Heating	920,308	902,172	885,763
Commercial and Industrial Firm	8,599	8,925	9,053
Commercial and Industrial Interruptible	1,927	1,919	1,894
Commercial and Industrial Space Heating	86,978	84,161	82,098
Interdepartmental	8	8	8
Total	1,108,253	1,092,449	1,078,05-

1/ Excluding out-of-state operations.
2/ The decline in residential consumption and customers is due to the transfer of residential customers to the space heating classification when gas furnaces are installed.

TABLE 14

OPERATING AND PLANT STATISTICS
WISCONSIN GAS UTILITIES 1/
1985-1983

	1985	1984	1983
Disposition of Gas Delivered to			
Mains (Therms)			
Gas Sold in Wisconsin			
To Ultimate Consumers	3,066,705,979	3,044,318,711	2,989,528,687
To Other Gas Utilities	0	0	11,100,000
Total	3,066,705,979	3,044,318,711	3,000,628,687
Gas Used by Company	6,128,920	6,237,808	5,857,593
Total Sold and Used	3,072,834,899	3,050,556,519	3,006,486,280
Gas Unaccounted for	(28,986,508)	5,844,868	15,433,922
Gas Delivered to Mains	3,043,848,391	3,056,401,387	3,021,920,202
Percentage of Gas Unaccounted for	(0.95)%	0.19 %	0.51 %
Gas Produced (Therms)			
Liquefied Petroleum Gas	13,441	64,054	18,931
Natural Gas Purchased (Therms)			
From ANR Company	2,658,421,453	2,668,771,014	2,654,225,388
From Natural Gas Pipe Line Co.	76,589,234	78,304,160	73,943,381
From Midwest Gas Transmission Company	12,011,024	36,275,082	26,015,192
From Northern Natural Gas Co.	293,916,305	267,456,167	265,140,094
Total Natural Gas Purchase	3,040,938,016	3,050,806,423	3,019,324,055
Total Gas Produced & Purch	3,040,951,457	3,050,870,477	3,019,342,986
Net Inventory Change	2,896,934	5,530,910	2,577,216
Gas Delivered to Mains	3,043,848,391	3,056,401,387	3,021,920,202
Miles of Distribution and Transmission Mains 2/	19,898	19,636	19,462

1/ Excluding out-of-state operations.
2/ Not including transmission mains owned by pipeline companies.

TABLE 15

CONDENSED SUMMARY OF 1985 OPERATIONS
INDIVIDUAL GAS UTILITIES 1/

Utilities	Operating Revenue 2/	Operation and Maintenance	Depreciation and Amortization	Taxes Other Than Income Taxes	Income Taxes	Net Operating Revenues	Therms Sold 2/	Therms Produced	Therms Purchased 3/	Therms Produced & Purchased	Average Number of Customers 2/
Class A and B											
City Gas Co. of Antigo	$ 4,675,079	$ 4,162,803	$ 98,945	$ 55,012	$ 132,505	$ 225,814	8,358,394	0	8,330,405	8,330,405	3,438
Lake Superior District Power Co.	11,758,022	10,846,790	217,184	112,086	249,531	332,431	24,437,639	0	24,257,250	24,257,250	7,412
Madison Gas & Elec. Co.	103,461,781	86,386,410	4,783,235	1,020,042	3,885,881	7,454,193	177,095,181	8,036	174,448,533	174,456,569	72,483
Midwest Natural Gas Co.	4,903,875	4,616,911	109,366	54,935	54,600	68,003	10,417,695	0	10,326,963	10,326,963	3,782
Northern States Power Co.	43,134,367	36,688,756	1,717,635	410,333	1,983,026	2,333,847	81,182,108	0	82,381,520	82,381,520	32,491
Superior Water, Light & Power Co.	11,488,421	9,940,128	386,212	141,432	485,400	535,249	19,159,191	4,955	19,565,025	19,569,980	8,748
Wisconsin Fuel & Light Co.	69,619,156	64,278,953	1,380,569	676,265	1,387,100	1,894,269	146,585,320	0	146,427,848	146,427,848	38,795
Wisconsin Gas Company	637,167,133	564,976,603	19,778,226	6,578,162	16,303,942	29,530,200	1,171,393,000	0	1,152,999,368	1,152,999,368	413,832
Wisconsin Natural Gas Company	342,596,028	294,651,287	12,417,285	3,477,635	12,518,186	19,531,635	629,163,977	0	624,876,230	624,876,230	226,788
Wisconsin Power & Light Co.	145,048,224	132,502,600	5,475,802	1,496,057	4,351,215	1,222,550	256,939,000	450	262,711,402	262,711,852	104,032
Wisconsin Public Service Corp.	228,865,257	210,100,530	5,432,040	2,179,792	4,017,506	7,135,389	440,195,355	0	434,988,201	434,988,201	153,117
Wisconsin Southern Gas Co.	43,518,910	37,330,651	1,380,647	543,664	1,874,233	2,439,715	87,466,133	0	85,438,542	85,438,542	38,475
Subtotal	$1,646,236,253	$1,456,484,422	$53,187,116	$16,745,495	$47,113,905	$72,705,295	3,052,342,993	13,441	3,026,731,327	3,026,744,768	1,103,393
Class C & D 5/											
Elroy Gas, Inc.	812,001	761,221	16,566	17,253	(261)	17,222	1,425,508	0	1,370,790	1,370,790	480
Muny Natural Gas Co. 4/	1,410,702	1,330,013	19,271	17,471	0	43,947	3,163,216	0	3,097,340	3,097,340	867
Natural Gas, Inc.	1,628,210	1,517,293	36,174	21,685	(1,846)	54,904	3,335,790	0	3,310,480	3,310,480	778
St. Croix Valley Natural Gas Co.	3,304,665	2,963,187	105,865	28,291	88,652	118,670	6,418,452	2	6,427,899	6,427,899	Est 2,735
Subtotal	$ 7,155,578	$ 6,571,714	$ 177,876	$ 84,700	$ 86,545	$ 234,743	14,342,986	0	14,206,709	14,206,709	4,860
Total All Utilities	$1,653,391,831	$1,463,056,136	$53,364,992	$16,830,195	$47,200,470	$72,940,038	3,066,685,979	13,441	3,040,938,036	3,040,951,477	1,108,253

( ) Denotes Negative Figure.
1/ Data includes Wisconsin operations only.
2/ Includes Interdepartmental Sales and Sales for Resale.
3/ Out-of-state sales by Lake Superior District Power and Wisconsin Public Service Corporation were subtracted from the therms purchased figure to give an estimated figure for Wisconsin only.
4/ Municipally owned.
5/ There are no Class D private gas utilities.

TELEPHONE UTILITY SUMMARY

Comparative statistics of telephone utilities in Wisconsin during the period 1983 -1985 are presented in this session. In addition, selected data over a 10-year period are presented in Chart 21. The coverage is summarized below:

Table 16 - Comparative Statement of Revenues and Expenses, Wisconsin Telephone Utilities, 1985 -1983
Table 17 - Access Lines Served by Wisconsin Telephone Utilities, 1985-1983
Table 18 - Condensed Summary of 1985 Operations, Individual Telephone Utilities

Chart 21 - Comparison of Revenues and Expenses, Wisconsin Telephone Utilities, 1976 -1985

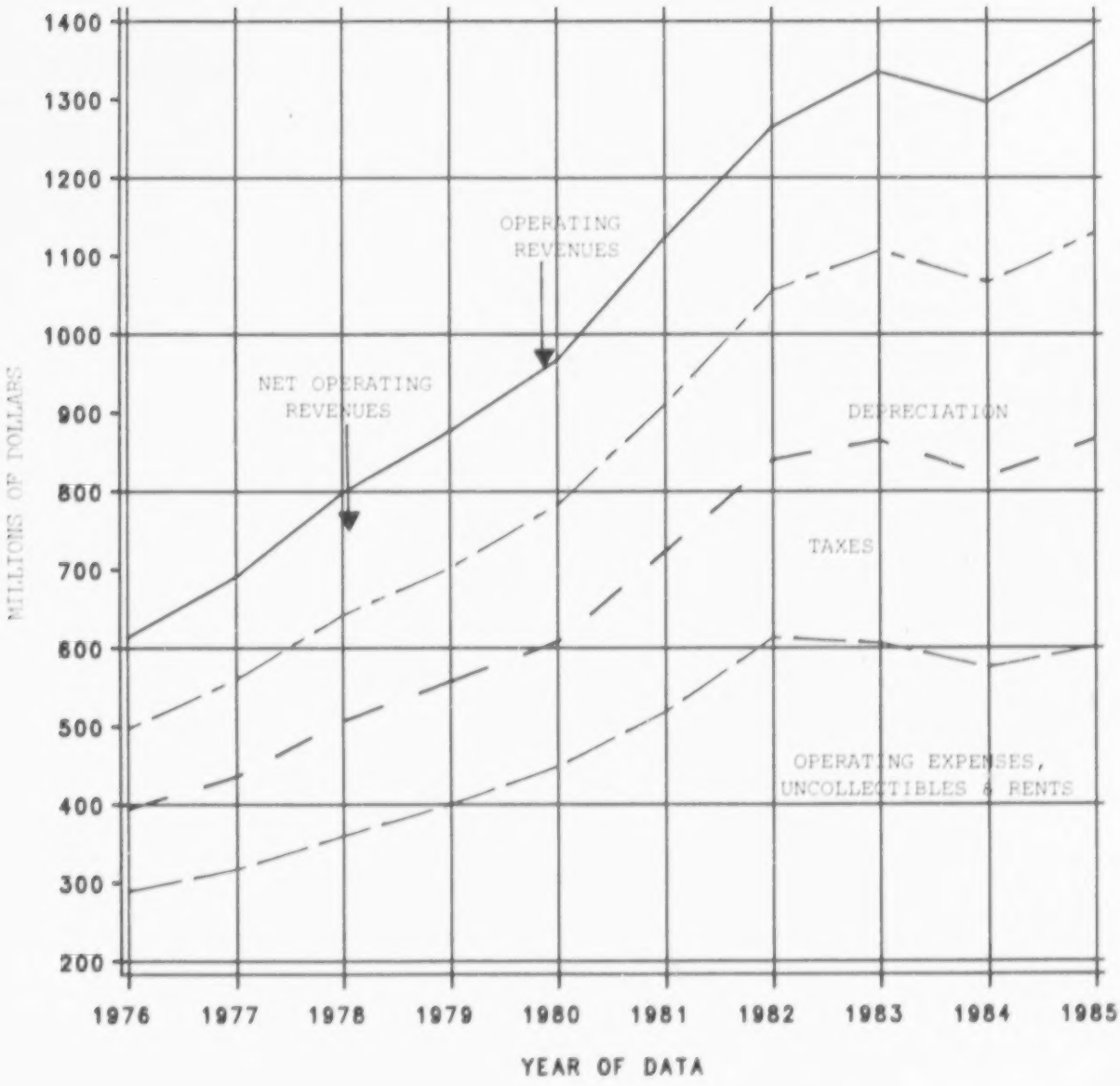
Telephone Utility Revenues and Expenses

Table 16 shows that telephone revenues in Wisconsin increased over $77.8 million in 1985, or 6.0%. Total operating expenses were up about $63.9 million, a 6.0% increase. Net operating revenue rose about $13.9 million or 6.1%.

Toll service revenues decreased 26.7% during the year. Local service revenues also decreased by 2.4%.

CHART 21

WISCONSIN TELEPHONE UTILITIES REVENUES AND EXPENSES



Access Line Data

Access Line data is presented in Table 17. About 2.2 million access lines were in service at the close of 1985. Approximately 78% are used by residential subscribers, 20% by business subscribers and 2% representing miscellaneous customers such as foreign exchange in and other common carrier connections.

Individual Companies

Table 18 presents individual company data for each of the 99 companies operating in the State. The Wisconsin Bell Company alone accounted for 68.3% of the revenues and served 66.9% of the customer access lines. General Telephone Company accounted for another 16.7% of the total revenues and served 14.9% of the access lines.

TABLE 16

COMPARATIVE STATEMENT OF REVENUES AND EXPENSES
WISCONSIN TELEPHONE UTILITIES
1985-1983

	1985	1984	1983
Operating Revenues			
Exchange Service Revenue	$ 609,402,753	$ 624,479,586	$ 612,861,420
Access Revenues	416,049,202	2/	2/
Toll Service Revenue	210,937,686	287,663,993	647,142,031
Miscellaneous Operating Rev.	137,736,807	384,174,896	75,506,418
Total Operating Revenues	$ 1,374,126,448	$ 1,296,318,475	$ 1,335,509,869
Operating Expenses			
Maintenance Expense	$ 247,294,992	$ 228,706,747	$ 245,037,516
Traffic Expense	38,195,222	36,189,455	43,751,136
Commercial Expense 1/	109,154,640	110,287,134	118,176,584
General and Miscellaneous Exp.	194,148,593	189,067,219	181,288,107
General Services and Licenses	14,204,033	12,027,627	19,150,205
Total Operation and Maintenance	$ 602,997,480	$ 576,278,182	$ 607,403,548
Depreciation and Amortization	264,969,079	248,355,674	243,208,693
Taxes Other Than Income Taxes	0	116,103,295	125,081,838
Income Taxes 3/	263,285,178	126,627,382	132,495,248
Total Operating Expenses	$ 1,131,251,737	$ 1,067,364,533	$ 1,108,189,327
Net Operating Revenue	$ 242,874,711	$ 228,953,942	$ 227,320,542

1/ Includes uncollectible actounts.
2/ Access Revenues were included in other revenues for 1984 and 1983.
3/ Taxes Other Than Income Taxes included.

TABLE 17

CUSTOMER ACCESS LINES SERVED BY WISCONSIN TELEPHONE COMPANIES
1985-1983

	December 31, 1985	December 31, 1984	December 31, 1983
Residential	1,737,593	1,721,264	1,715,902
Business 1/	456,398	457,409	447,210
Miscellaneous 2/	34,706	37,294	33,910
Total Customer Access Lines	2,228,697	2,215,967	2,197,022

1/ Includes pay and mobile lines.

2/ Includes foreign exchange in and other common carrier connections.

TABLE 18

A SUMMARY OF 1985 OPERATIONS

FOR INDIVIDUAL TELEPHONE UTILITIES

UTILITY	OPERATING REVENUE	OPERATION AND MAINTENANCE	DEPN. AND AMORT.	TAXES OTHER THAN INCOME TAXES	INCOME TAXES 1/	TOTAL OPERATING EXPENSE	NET OPERATING REVENUE	TOTAL STATIONS CLOSE OF YEAR
AMERY TELEPHONE COMPANY	1,623,766	675,920	409,662	0	231,524	1,317,106	306,660	4,383
AMHERST TELEPHONE COMPANY	1,448,668	438,731	333,761	0	216,792	989,284	459,384	3,144
BADGER STATE TELEPHONE COMPANY, INC	1,630,231	786,892	343,279	0	236,895	1,367,067	263,164	3,734
BALDWIN TELECOM, INC.	1,322,513	489,897	233,507	0	258,972	982,376	340,137	2,575
BAYLAND TELEPHONE INC	519,229	230,658	113,651	0	61,877	406,186	113,042	1,135
BELMONT TELEPHONE COMPANY	280,196	132,606	69,425	0	29,117	231,148	49,048	693
BERGEN TELEPHONE COMPANY	101,433	53,627	11,839	0	11,280	79,745	21,688	156
BLACK EARTH TELEPHONE COMPANY	397,676	204,249	52,594	0	72,357	329,200	68,476	1,008
BLOOMER TELEPHONE COMPANY	934,905	310,933	227,935	0	173,228	712,096	222,809	2,498
BONDUEL TELEPHONE COMPANY	552,916	315,960	82,162	0	85,749	483,871	69,045	1,352
BRUCE TELEPHONE COMPANY, INC	957,508	263,775	161,539	0	175,568	600,882	356,626	1,253
BURLINGTON BRIGHTON & WHEATLAND TE	1,113,018	575,369	158,515	0	194,749	928,633	184,385	2,509
CASCO TELEPHONE COMPANY	398,881	204,452	151,912	0	27,218	383,582	15,299	953
CENCOM OF WISCONSIN, INC.	9,581,052	4,655,208	1,812,966	0	1,416,997	7,885,171	1,695,881	19,778
CENTRAL STATE TELEPHONE COMPANY	3,270,492	1,464,049	769,289	0	426,028	2,659,366	611,126	5,883
CHEQUAMEGON TELEPHONE COOP INC	2,867,144	1,148,839	912,183	0	219,127	2,280,150	586,994	5,108
CHIBARDUN TELEPHONE COOPERATIVE IN	1,758,803	826,838	472,710	0	141,595	1,441,143	317,660	4,213
CITIZENS TELEPHONE COOPERATIVE INC	451,569	194,247	139,953	0	31,970	366,171	85,399	1,527
CLEAR LAKE TELEPHONE COMPANY, INC	510,408	242,279	105,032	0	67,029	414,340	96,069	1,082
COCHRANE COOPERATIVE TELEPHONE CO	449,518	181,533	86,987	0	28,863	297,383	152,135	1,005
COON VALLEY FARMERS TELEPHONE CO	451,533	229,193	105,919	0	47,174	382,286	69,247	1,770
CRANDON TELEPHONE COMPANY	1,054,714	410,153	326,998	0	77,252	814,403	240,310	2,047
CUBA CITY TEL EXCHANGE CO/KIESLING	664,281	273,083	172,244	0	86,939	532,266	132,015	1,402
DICKEYVILLE TELEPHONE CORPORATION	553,099	288,596	103,829	0	50,306	442,732	110,367	889
DODGE COUNTY TELEPHONE COMPANY	374,249	207,302	79,260	0	40,222	326,783	47,466	858
FAIRWATER BRANDON ALTO TELEPHONE C	512,867	297,447	129,264	0	45,218	471,929	40,937	1,105
FARMERS INDEPENDENT TELEPHONE CO	901,963	384,130	205,632	0	151,922	741,684	160,279	2,064
FARMERS TELEPHONE COMPANY	2,314,897	759,904	448,283	0	465,299	1,673,487	641,410	5,045
FENNIMORE TELEPHONE COMPANY	676,175	358,228	142,321	0	64,153	564,702	111,473	1,496
FOOTVILLE TELEPHONE COMPANY	383,460	183,868	78,973	0	33,066	295,907	87,553	763
FORESTVILLE TELEPHONE COMPANY, INC	636,984	285,319	97,906	0	143,203	526,428	110,556	1,670
GENERAL TELEPHONE CO OF WI/W BORNE	229,825,090	96,716,332	52,734,333	0	39,561,114	189,011,779	40,813,311	333,183
GREENWOOD TELEPHONE COMPANY	538,848	288,504	118,890	0	67,811	475,205	63,643	1,280
HAGER CITY TELEPHONE COMPANY	574,365	397,875	236,546	0	39,165	673,586	-99,221	1,563
HEADWATERS TELEPHONE COMPANY	2,289,684	556,527	689,610	0	300,205	1,546,342	743,342	3,467

TABLE 18 (CONTINUED)

UTILITY	OPERATING REVENUE	OPERATION AND MAINTENANCE	DEPN. AND AMORT.	TAXES OTHER THAN INCOME TAXES	INCOME TAXES 1/	TOTAL OPERATING EXPENSE	NET OPERATING REVENUE	TOTAL STATIONS CLOSE OF YEAR
HILLSBORO TELEPHONE COMPANY INC	570,158	269,906	128,331	0	53,771	452,009	118,149	1,378
CENTURY TELEPHONE OF WIS., INC	26,046,753	11,404,022	5,634,631	0	4,624,818	21,663,471	4,383,282	40,313
LAKEFIELD TELEPHONE COMPANY	591,002	211,756	185,057	0	47,903	444,716	146,286	1,190
LAKESHORE TELEPHONE COMPANY	559,214	330,098	103,649	0	55,081	488,828	70,386	1,394
LARSEN-READFIELD TELEPHONE COMPANY	665,113	341,102	132,543	0	98,603	572,248	92,865	1,837
LA VALLE TELEPHONE COOPERATIVE, IN	490,795	240,821	144,040	0	33,408	418,270	72,525	1,390
LEMONWEIR VALLEY TELEPHONE COMPANY	1,122,406	445,974	317,269	0	106,669	869,912	252,494	2,268
LUCK TELEPHONE COMPANY	721,377	281,993	150,612	0	132,729	565,335	156,043	1,671
MADELINE ISLAND TELEPHONE COMPANY	176,141	87,433	13,143	0	25,832	126,408	49,733	320
MANAWA TELEPHONE COMPANY, INC	945,699	417,470	245,357	0	83,488	746,315	199,383	1,766
MAPLE TELEPHONE COOPERATIVE, INC	107,917	31,860	13,123	0	8,234	53,216	54,701	283
MARQUETTE ADAMS TELEPHONE COOP INC	1,241,033	459,575	269,712	0	81,273	810,560	430,473	2,379
MID-PLAINS TELEPHONE INCORPORATED	6,784,901	2,636,751	1,117,223	0	1,463,026	5,217,000	1,567,901	13,161
MIDWAY TELEPHONE COMPANY	3,028,096	1,141,351	567,617	0	587,593	2,296,560	731,536	5,770
MILLTOWN MUTUAL TELEPHONE COMPANY	663,316	294,943	200,830	0	53,683	549,456	113,860	1,607
MONDOVI TELEPHONE COMPANY	1,067,054	484,719	183,645	0	163,035	831,398	235,656	2,036
MONROE COUNTY TELEPHONE COMPANY	3,662,159	1,746,960	887,353	0	494,245	3,128,559	533,600	7,854
MOSEL CENTERVILLE TELEPHONE COMPAN	1,151,284	609,812	293,959	0	119,691	1,023,461	127,823	2,680
MOSINEE TELEPHONE COMPANY	1,407,982	651,480	347,489	0	177,084	1,176,053	231,929	3,186
MOUNT HOREB TELEPHONE COMPANY	1,518,573	576,360	341,703	0	224,513	1,142,575	375,999	2,581
MOUNT VERNON TELEPHONE COMPANY	2,164,469	1,023,143	453,509	0	340,523	1,817,175	347,295	4,379
NELSON TELEPHONE COOPERATIVE	1,557,934	737,864	446,146	0	124,452	1,308,462	249,472	3,155
NIAGARA TELEPHONE COMPANY	1,388,130	613,298	236,866	0	205,056	1,055,219	332,911	2,880
NORTHEAST TELEPHONE COMPANY	1,616,199	628,581	473,443	0	151,948	1,253,972	362,227	4,223
NORTH-WEST TELEPHONE COMPANY	26,703,217	11,197,299	6,242,271	0	3,263,494	20,703,064	6,000,153	48,545
NOVVS TELEPHONE COMPANY	163,256	99,122	23,874	0	0	122,996	40,260	507
PEOPLES TELEPHONE CO (MOUNT HOPE)	693,545	353,834	132,366	0	102,157	588,357	105,189	1,623
PEOPLES TELEPHONE CO, THE (RANDOLP	3,001,750	1,012,595	748,614	0	393,786	2,154,995	846,755	5,165
PLATTEVILLE TELEPHONE COMPANY	4,314,613	1,757,741	672,576	0	794,095	3,224,412	1,090,201	7,106
INDIANHEAD TELEPHONE CO.	965,026	315,422	262,687	0	158,767	736,877	228,149	1,490
PRICE COUNTY TELEPHONE COMPANY	1,398,581	592,080	288,431	0	184,992	1,065,503	333,078	3,036
RHINELANDER TELEPHONE COMPANY	4,256,883	1,654,484	1,052,382	0	689,528	3,396,394	860,489	9,688
RIB LAKE TELEPHONE COMPANY	413,395	176,042	110,285	0	44,504	330,831	82,564	1,017
RICHLAND GRANT TELEPHONE COOPERATI	845,710	447,960	238,496	0	55,560	742,017	103,693	2,166
ROCK RIVER TELEPHONE COMPANY	672,195	350,967	92,142	0	108,071	551,181	121,014	1,310

TABLE 18 (CONTINUED)

UTILITY	OPERATING REVENUE	OPERATION AND MAINTENANCE	DEPN. AND AMORT.	TAXES OTHER THAN INCOME TAXES	INCOME TAXES 1/	TOTAL OPERATING EXPENSE	NET OPERATING REVENUE	TOTAL STATIONS CLOSE OF YEAR
ST CROIX TELEPHONE COMPANY	2,858,272	772,362	585,905	0	670,265	2,028,532	829,740	4,751
SCANDINAVIA TELEPHONE COMPANY	922,286	408,613	132,990	0	192,488	734,091	188,195	1,721
SHARON TELEPHONE COMPANY	440,272	263,979	52,954	0	67,547	384,480	55,792	886
SHELL LAKE TELEPHONE COMPANY	625,422	275,572	162,150	0	69,429	507,152	118,270	1,690
SIREN TELEPHONE COMPANY INCORPORAT	583,463	269,674	134,452	0	74,971	479,097	104,367	1,522
SOLON SPRINGS TELEPHONE COMPANY	5,708,752	2,300,009	1,074,942	0	1,141,357	4,516,308	1,192,443	12,544
SOMERSET TELEPHONE COMPANY, INC	563,034	224,681	103,148	0	90,416	418,244	144,790	1,033
SOUTHEAST TELEPHONE CO OF WISC, IN	2,299,982	1,159,541	449,089	0	216,325	1,824,955	475,027	4,964
SPRING VALLEY TELEPHONE COMPANY, I	321,954	181,622	48,218	0	39,893	269,733	52,221	795
STATE LONG DISTANCE TELEPHONE CO	3,649,157	1,505,673	605,318	0	743,626	2,854,617	794,540	5,241
STOCKBRIDGE & SHERWOOD TELEPHONE C	994,214	519,392	176,714	0	160,887	856,994	137,220	2,007
SULLIVAN TELEPHONE COMPANY	481,678	273,689	134,950	0	26,002	434,640	47,037	1,467
TENNEY TELEPHONE COMPANY	333,902	194,606	53,175	0	33,459	281,240	52,663	859
THORP TELEPHONE COMPANY	863,622	495,448	116,975	0	106,639	719,063	144,560	1,852
TRI-COUNTY TELEPHONE COOP, INC	1,320,701	695,082	352,618	0	105,523	1,153,223	167,478	3,159
TURTLE LAKE TELEPHONE COMPANY INC	418,766	243,515	95,371	0	23,502	362,388	56,378	1,065
UNION TELEPHONE COMPANY	1,908,002	627,107	396,669	0	350,096	1,373,872	534,129	3,018
UNITED TELEQUIPMENT CORPORATION	7,157,051	3,124,423	1,441,620	0	1,319,242	5,885,285	1,271,766	11,292
UNIVERSAL TEL CO OF NORTHERN WIS I	4,188,646	1,819,746	748,333	0	837,466	3,405,546	783,100	10,276
URBAN TELEPHONE CORPORATION	6,136,933	2,919,135	927,656	0	1,169,211	5,016,002	1,120,931	15,016
VALDERS TELEPHONE COMPANY	870,024	452,046	171,923	0	127,023	750,992	119,032	1,732
VERNON TELEPHONE COOPERATIVE	1,835,484	929,146	405,716	0	141,624	1,476,486	358,998	5,129
VIROQUA TELEPHONE COMPANY	1,728,967	950,058	266,482	0	243,121	1,459,661	269,305	2,902
WAUNAKEE TELEPHONE COMPANY INC	1,449,577	617,168	337,756	0	225,875	1,180,799	268,778	3,046
WAYSIDE TELEPHONE COMPANY	426,535	240,996	104,558	0	30,883	376,437	50,098	1,135
WEST WISCONSIN TELEPHONE COOP, INC	1,927,956	729,783	557,845	0	150,288	1,437,916	490,040	3,193
WISCONSIN BELL, INC.	939,054,793	417,509,943	168,333,990	0	192,444,368	778,288,301	160,766,492	1,491,060
WITTENBERG TELEPHONE COMPANY	885,742	367,287	155,616	0	142,410	665,313	220,429	1,696
WOOD COUNTY TELEPHONE COMPANY	9,573,252	4,269,841	1,768,666	0	1,809,643	7,848,150	1,725,102	19,701
TOTAL	1,374,126,448	602,997,480	264,969,079	0	263,285,178	1,131,251,737	242,874,710	2,228,697

1/ Taxes Other Than Income Taxes Included.

WATER UTILITIES

Comparative statistics of water utilities operating in Wisconsin during the period from 1983 through 1985 are presented in this section. Chart 22 shows a summary of the income account over a ten-year period. The coverage is summarized below:

Table 19 - Comparative Statement of Revenue and Expenses Wisconsin Water Utilities, 1985 - 1983.
Table 20 - Operating and Plant Statistics, Wisconsin Water Utilities, 1985 -1983.
Table 21 - Condensed summary of 1985 Operations, Individual Water Utilities

Chart 22 - Comparison of Revenues and Expenses, Wisconsin Water Utilities, 1976-1985.

Water Utility Revenues and Expenses

Chart 22 shows that revenues and expenses advanced steadily over the past nine years. Taxes are up 54.7% for the period while operation and maintenance expenses are up 100.3%, depreciation rose 67.3%, operating revenues rose 93.9% and net operating revenue increased 137.3%.

Revenues increased 5.6% and operating expenses were up 5.8% during 1985. Net operating revenue increased 4.5%.

Operating and Plant Statistics

The total number of water customers served increased 0.7% in 1985 while gallons of water pumped was down 20.0%. Electric pumpage accounted for 99.9% of the total and the remainder was by internal combustion. Total miles of main increased 0.5%.

Data on Individual Utilities

Table 21 shows selected data on each Class A and B water utility, all but two of which are municipally owned. The table also shows totals for the smaller utilities. Municipal utilities accounted for 96.3% of the total operating revenue and served 97.2% of the customers. Superior, served by Superior Water, Light, and Power Company, and Beloit and Ripon served by Wisconsin Power and Light Company, were the largest cities served by private utilities.

CHART 22

WISCONSIN WATER UTILITIES REVENUES AND EXPENSES

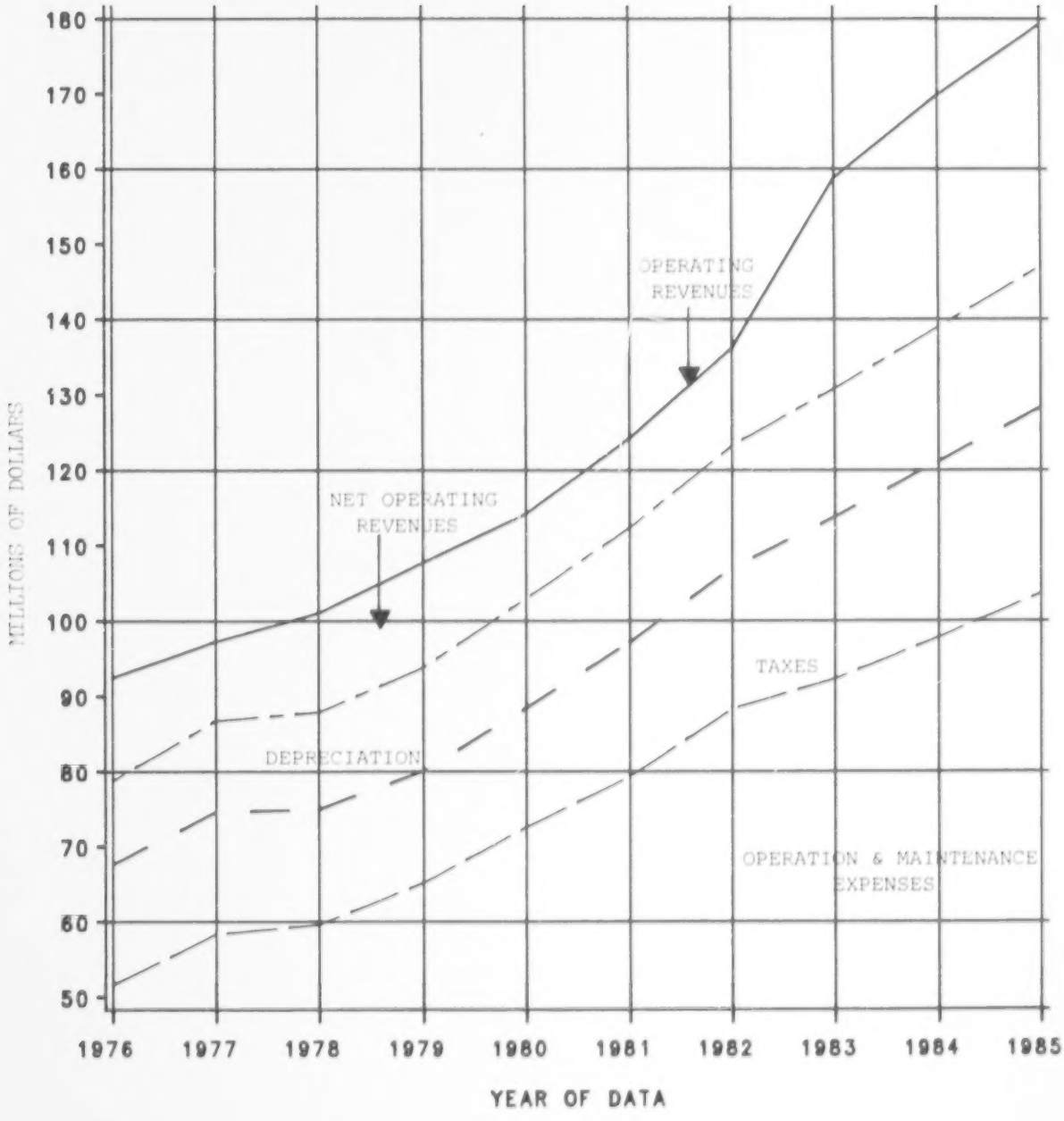


TABLE 19

COMPARATIVE STATEMENT OF REVENUES AND EXPENSES
WISCONSIN WATER UTILITIES
1985-1983

	1985	1984	1983
All Water Utilities			
Operating Revenues			
Sales to General Consumers	$ 132,448,558	$ 125,441,108	$ 116,963,306
Interdepartmental Sales	128,218	285,070	91,035
Sales to Other Water Utilities	4,684,670	4,074,089	4,004,809
Fire Protection and Other Municipal Sales	38,669,886	36,877,050	34,763,635
Total Sales of Water	$ 175,931,332	$ 166,677,317	$ 155,822,785
Miscellaneous Operating Revenue	3,311,272	3,103,955	2,990,151
Total Operating Revenues	$ 179,242,604	$ 169,781,272	$ 158,812,936
Operating Expenses			
Source of Water Supply (Excluding Purchases)	$ 2,133,479	$ 1,448,715	$ 1,458,547
Water Purchases	4,891,064	5,218,435	4,632,168
Pumping Expenses	25,449,623	25,019,042	24,545,546
Purification	13,780,076	13,085,271	12,548,779
Total Production Expense	$	$ 44,771,463	$ 43,185,040
Transmission and Distribution	27,947,303	25,558,773	23,035,062
Customer Accounts	7,053,860	6,471,449	6,389,319
Sales	2,234	70	293
Administrative and General Expenses	22,543,040	21,185,936	19,863,704
Total Operation and Maintenance Expense	$ 103,800,679	$ 97,987,691	$ 92,473,418
Depreciation and Amortization	18,948,679	17,990,044	17,259,406
Taxes Other Than Income Taxes	23,845,664	22,600,179	20,743,893
Income Taxes	632,060	575,312	565,681
Total Operating Expenses	$ 147,227,082	$ 139,153,226	$ 131,042,398
Net Operating Revenues	$ 32,015,522	$ 30,628,046	$ 27,770,538

TABLE 19 (Concluded)

COMPARATIVE STATEMENT OF REVENUES AND EXPENSES
WISCONSIN WATER UTILITIES
1985-1983

	1985	1984	1983
Private Water Utilities			
Total Operating Revenues	$ 6,603,928	$ 6,183,253	$ 5,844,497
Operation and Maintenance	3,698,804	3,364,993	$ 3,076,219
Depreciation and Amortization	662,635	631,276	600,971
Taxes Other Than Income Taxes	298,463	481,471	430,420
Income Taxes	632,060	575,312	565,681
Total Operating Expenses	$ 5,291,962	$ 5,053,052	$ 4,673,291
Net Operating Revenues	$ 1,311,966	$ 1,130,201	$ 1,171,206
Municipal Utilities			
Total Operating Revenues	$172,638,676	$163,598,019	$152,968,439
Operation and Maintenance	100,101,875	94,622,698	$ 89,397,199
Depreciation and Amortization	18,286,044	17,358,768	16,658,435
Taxes Other Than Income Taxes	23,547,201	22,118,708	20,313,473
Total Operating Expenses	$141,935,120	$134,100,174	$126,369,107
Net Operating Revenues	$ 30,703,556	$ 29,497,845	$ 26,599,332

TABLE 20

OPERATING AND PLANT STATISTICS
WISCONSIN WATER UTILITIES
1984-1982

	1985	1984	1983
Average Number of Customers			
Residential	864,153	856,722	846,941
Commercial	93,464	92,255	90,596
Industrial	7,825	7,683	7,323
Total	965,442	956,660	944,860
Private Utilities	26,941	26,873	26,923
Municipal Utilities	938,501	929,787	917,937
Total	965,442	956,660	944,860
Gallons of Water Pumped Into Distribution System (000 Omitted)			
Electric	184,658,073	183,904,431	190,174,947
Internal Combustion	20,948	16,121	889
Steam	0	0	0
Purchased	13,490,825	12,905,705	11,037,363
Total	198,169,846	196,826,257	201,212,310
Private Utilities	4,391,391	4,493,513	4,286,661
Municipal Utilities	193,778,455	192,332,744	196,925,649
Total	198,169,846	196,826,257	201,212,310
Miles of Distribution Main on December 31			
Private Utilities	363	363	328
Municipal Utilities	13,821	13,754	13,672
Total	14,184	14,117	14,000

TABLE 21

CONDENSED SUMMARY OF 1985 OPERATIONS
INDIVIDUAL WATER UTILITIES

Utilities	Operating Revenues	Operation and Maintenance	Depreciation and Amortization	Taxes Other Than Income Taxes	Income Taxes	Total Operating Expenses	Net Operating Revenues	Average Number of Customers 1/
Private Utilities Class A & B								
Superior Water, Light & Power Co. (SWLP)	$ 2,546,422	$ 1,653,931	$ 193,516	$ 142,748	$ 134,234	$ 2,124,429	$ 421,993	9,480
Wisconsin Power & Light Co. (WPL)	3,806,778	1,865,430	436,278	139,657	493,704	2,935,069	871,709	15,958
Subtotal	$ 6,353,200	$ 3,519,361	$ 629,794	$ 282,405	$ 627,938	$ 5,059,498	$ 1,293,702	25,438
11 Class D Water Utilities 2/	250,728	179,443	32,841	16,058	4,122	232,464	18,264	1,713
Total Private Utls.	$ 6,603,928	$ 3,698,804	$ 662,635	$ 298,463	$ 632,060	$ 5,291,962	$ 1,311,966	27,151
Municipal Utilities Class A								
Appleton	$ 3,322,678	$ 2,113,217	$ 264,504	$ 396,818	$ 0	$ 2,774,539	$ 548,139	21,687
Cudahy	1,314,623	742,421	127,150	209,415	0	1,078,986	235,637	5,188
Eau Claire	3,084,265	1,568,553	292,124	450,709	0	2,311,386	772,879	18,418
Fond du Lac	1,661,689	1,064,873	154,618	164,896	0	1,384,387	277,302	12,340
Glendale	1,059,056	608,667	116,530	128,394	0	853,591	205,465	4,482
Green Bay	4,642,104	2,444,941	544,757	531,287	0	3,520,985	1,121,119	30,637
Janesville	1,824,582	827,570	168,491	284,850	0	1,280,911	563,671	17,112
Kaukauna	640,603	359,832	69,937	91,861	0	521,630	118,973	3,915
Kenosha	4,231,689	2,347,983	407,752	491,037	0	3,246,772	984,917	23,289
La Crosse	2,287,739	1,351,304	167,418	311,815	0	1,830,537	457,202	15,094
Madison	7,927,534	4,475,547	753,055	1,042,110	0	6,270,712	1,656,822	47,350
Manitowoc	1,778,424	1,193,194	195,341	259,841	0	1,648,376	130,048	11,211
Marinette	1,017,704	589,819	84,297	124,555	0	798,671	219,033	4,680
Marshfield	760,163	492,883	64,571	92,864	0	650,318	109,845	6,230
Milwaukee	36,940,862	21,450,458	2,734,162	4,906,242	0	29,090,862	7,850,000	159,043
Neenah	1,362,811	831,637	134,093	175,160	0	1,140,890	221,921	8,404
Oshkosh	2,303,282	1,473,343	245,399	359,611	0	2,078,353	224,929	17,344
Racine	5,312,197	3,256,179	493,651	573,600	0	4,323,430	988,767	28,137
Sheboygan	2,155,110	1,331,417	134,506	278,576	0	1,744,499	410,611	16,864
South Milwaukee	861,026	668,007	62,027	123,232	0	853,266	7,760	5,839
Waukesha	3,561,752	2,021,367	345,721	457,806	0	2,824,894	736,858	13,155
Wausau	1,688,524	1,133,900	144,477	161,489	0	1,439,866	248,658	11,935
Wauwatosa	3,069,434	2,160,151	181,863	362,881	0	2,704,895	364,539	15,617
West Allis	3,095,034	2,483,764	200,665	391,753	0	3,076,182	18,852	19,266
Wisconsin Rapids	1,475,925	843,741	109,431	220,692	0	1,173,864	302,061	6,841
Subtotal	$ 97,378,810	$ 57,834,768	$ 8,196,540	$ 12,571,494	$ 0	$ 78,602,802	$ 18,776,008	524,080

TABLE 21 (Concluded)

CONDENSED SUMMARY OF 1985 OPERATIONS
INDIVIDUAL WATER UTILITIES

Utilities	Operating Revenues	Operation and Maintenance	Depreciation and Amortization	Taxes Other Than Income Taxes	Income Taxes	Total Operating Expenses	Net Operating Revenues	Average Number of Customers 1/
Municipal Utilities (Continued)								
Class B								
Allouez	$ 568,324	$ 509,631	$ 71,258	$ 65,952	$ 0	$ 646,841	$ (78,517)	4,750
Ashland	579,965	417,452	37,433	84,917	0	539,802	40,163	2,838
Beaver Dam	687,195	481,128	64,905	83,138	0	629,171	58,024	5,322
Brown Deer	703,127	477,993	72,375	112,363	0	662,731	40,396	3,348
Cedarburg	473,669	287,662	60,233	64,411	0	412,306	61,363	2,723
Chippewa Falls	999,472	575,168	82,326	134,557	0	792,051	207,421	4,321
De Pere	694,915	356,497	80,172	122,373	0	559,042	135,873	4,934
Greendale	728,236	541,777	61,166	100,340	0	703,283	24,953	4,551
Menasha, Twn. S.D. 4	1,032,073	540,255	150,229	11,730	0	702,214	329,859	4,198
Menasha, City	1,633,175	1,165,805	100,709	123,434	0	1,389,948	243,227	5,013
Menomonee Falls	1,013,652	511,837	109,130	172,268	0	793,235	220,417	4,984
New Berlin	1,645,377	598,437	243,376	368,400	0	1,210,213	435,164	4,358
New London	272,959	230,965	26,561	45,114	0	302,640	(29,681)	2,328
Oak Creek	2,220,069	732,131	333,558	417,498	0	1,483,187	736,882	3,624
Oconomowoc	655,483	367,796	98,179	94,425	0	560,400	95,083	3,244
Platteville	536,074	242,524	54,059	71,773	0	368,356	167,718	2,642
Plymouth	435,379	299,046	23,712	41,929	0	364,687	70,692	2,201
Port Washington	753,862	708,700	78,569	111,677	0	898,946	(145,084)	2,913
River Falls	289,234	188,037	28,487	40,182	0	256,706	32,528	2,397
Shawano	384,055	204,876	46,203	59,282	0	310,361	73,694	2,977
Shorewood	540,562	443,112	16,491	29,850	0	487,453	51,109	3,548
Stevens Point	776,211	443,828	83,107	148,636	0	675,571	100,640	6,947
Sturgeon Bay	867,964	357,478	126,833	148,455	0	632,766	235,198	3,403
Sun Prairie	488,188	254,864	48,903	82,600	0	386,367	101,821	4,117
Two Rivers	638,133	439,314	65,982	90,727	0	596,023	42,110	4,638
Waterloo	114,573	58,296	9,159	15,296	0	82,751	31,822	955
Watertown	865,257	444,388	86,817	113,702	0	644,907	220,350	5,858
Waupaca	361,833	208,284	55,372	58,417	0	322,073	39,760	1,867
Waupun	406,500	364,280	37,814	45,656	0	447,750	(41,250)	2,826
West Bend	1,068,113	571,705	121,287	170,604	0	863,596	204,517	6,560
Whitefish Bay	596,608	322,310	67,805	45,154	0	435,269	161,339	4,793
Subtotal	$ 23,030,237	$ 13,345,576	$ 2,542,210	$ 3,274,860	$ 0	$ 19,162,646	$ 3,867,591	119,178
Class C 129 Utilities	33,385,201	18,456,051	4,326,321	4,901,751	0	27,684,123	5,701,078	190,489
Class D 354 Utilities	18,844,428	10,465,480	3,220,973	2,799,096	0	16,485,549	2,358,879	119,426
Total Municipal Utls.	$172,638,676	$100,101,875	$ 18,286,044	$ 23,547,201	$ 0	$141,935,120	$ 30,703,556	953,173
Total All Utilities	$179,242,604	$103,800,679	$ 18,948,679	$ 23,845,664	$ 432,040	$147,227,092	$ 32,015,512	980,304

1/ Includes fire protection, public authorities, interdepartmental and other water utility retail customers.
2/ There were no private Class C utilities in 1984.
3/ ( ) Denotes negative figure.

STEAM AND HOT WATER HEATING UTILITY SUMMARY

As shown in Table 22, steam and hot water heating utility operations in Wisconsin are not very extensive. Only two utilities rendered this service in 1985.

The Wisconsin Electric Power Company, operating in the city of Milwaukee, has by far the largest heating utility in the State, serving 525 customers at the close of 1985. Its net operating revenue for the year was $1,309,177.

The other community in which heating service was supplied during the year was Waterloo, served by a municipal utility. Waterloo had a gain of $2,380 for 1985.

TABLE 22

COMPARATIVE STATEMENT OF REVENUES, EXPENSES
AND STATISTICS FOR WISCONSIN STEAM AND HOT WATER
HEATING UTILITIES
1985-1983

	1985	198-	1983
Operating Revenues	$ 12,142,297	$ 12,322,975	$ 11,177,063
Operation and Maintenance	9,046,722	8,605,293	8,089,070
Depreciation	770,925	763,332	756,246
Taxes	1,013,093	1,-16,36-	1,06-,975
Total Operating Expenses	$ 10,830,740	$ 10,78-,989	$ 9,910,291
Net Operating Revenues	$ 1,311,557	$ 1,537,986	1,266,772
Number of Customers	587	686	696